The George Washington University

Catalogue, 1908

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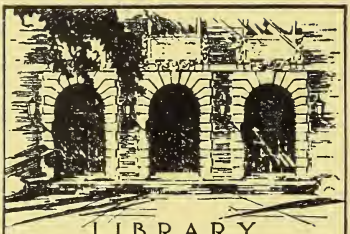
UNIVERSITY OF ILLINOIS



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The George Washington University Bulletin

MARCH, 1908

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PART I.

THE UNIVERSITY.

1908.

JANUARY.

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1909.

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The George Washington University.

UNIVERSITY CALENDAR.

1908.

January 3, *Friday.*—Last day on which Theses may be presented.
January 31, *Friday.*—Mid-Year Examinations completed in the Departments of Arts and Sciences and of Law.
February 1, *Saturday.*—Second Term begins.
February 3, *Monday.*—Doctorate Disputation.
February 22, *Saturday.*—Winter Convocation.
April 17-20, *Friday* to *Monday*, both inclusive.—Easter holidays.
April 21, *Tuesday.*—Davis Prize Speaking.
May 1, *Friday.*—Last day on which Theses may be presented.
May 13, *Wednesday.*—Examinations for Degrees completed.
May 25, *Monday.*—Doctorate Disputation.
May 26, 27, 28, 29, *Tuesday* to *Friday.*—Examinations for admission.
May 31, *Sunday.*—Baccalaureate Sermon.
June 3, *Wednesday.*—University Commencement.

SUMMER VACATION.

September 16, *Wednesday.*—Fall examinations in the Department of Medicine.
September 14-18, *Monday* to *Friday.*—Examinations for admission.
September 30, *Wednesday.*—Academic Year begins in all Departments of the University.
October 21, *Wednesday.*—Fall Convocation.
November 26-28, *Thursday* to *Saturday,* both inclusive.—Thanksgiving recess.

RECESS FROM DECEMBER 23, 1908, TO JANUARY 2, 1909, BOTH INCLUSIVE.

1909.

January 2, *Saturday.*—Last day on which dissertations may be presented.
January 30, *Saturday.*—Mid-Year Examinations completed in the Departments of Arts and Sciences.
February 1, *Monday.*—Second Term begins.
February 1, *Monday.*—Doctorate Disputation.

1909.

February 22, *Monday.*—Winter Convocation.

February 22, *Monday.*—Annual Meeting of the Alumni Association.

April 9-12, *Friday* to *Monday,* both inclusive.—Easter holidays.

April 13, *Tuesday.*—Davis Prize Speaking.

May 1, *Saturday.*—Last day on which Theses may be presented.

May 19, *Wednesday.*—Examinations for Degrees completed.

May 24, *Monday.*—Doctorate Disputation.

June 1, 2, 3, 4, *Tuesday* to *Friday.*—Examinations for admission.

June 6, *Sunday.*—Baccalaureate Sermon.

June 9, *Wednesday.*—University Commencement.

CHRONOLOGICAL TABLE.

1799. George Washington's last will and testament, urging the establishment of a University in Washington.

1821. Charter granted by Act of Congress creating "The Columbian College in the District of Columbia."

1825. The Medical School organized.

1865. The Law School organized.

1866. Mr. W. W. Corcoran gave the Medical School a building, 1325 H street.

1872. Mr. Corcoran gave an endowment "to make the College an University."

1873. Act of Congress changing the name to the Columbian University.

1884. University building, Fifteenth and H Streets, occupied by various departments of the University.

1884. The Corcoran Scientific School organized.

1887. The Dental School organized.

1893. The School of Graduate Studies organized.

1898. The Department of Jurisprudence and Diplomacy organized.

1898. Incorporation of the George Washington Memorial Association.

1902. Merging of the College, the Corcoran Scientific School, and the School of Graduate Studies into one Department of Arts and Sciences.

1903. Conferences between representatives of the Washington Memorial Institution, the George Washington Memorial Association, and the Columbian University with a view to coöperation in graduate work.

1904. January 23. Act of Congress making the University non-sectarian and giving the Board of Trustees power to change the name.

1904. Suggestion of the George Washington Memorial Association that Columbian University change its name to The George Washington University, and its offer to erect a memorial building on the new site, at a cost of $500,000, for graduate study and scientific research, accepted by the Board of Trustees.

1904. September 1. Change of name to The George Washington University.

1905. February 22. First Winter Convocation of The George Washington University.

1905. Act of Congress authorizing the incorporation of colleges under the University charter.

1905. Organization under the University charter of the Columbian College, the Washington College of Engineering, and the National College of Pharmacy.

1907. Organization of the College of the Political Sciences.

1907. Organization of the Division of Education.

1908. Organization of College of Veterinary Medicine.

SOME IMPORTANT PROVISIONS IN THE CHARTER.

Degrees.—The Board of Trustees may confer "such degrees in the liberal arts and sciences to such pupils of the institution or others whom by their proficiency in learning or their meritorious distinction they shall think entitled to them, as are usually granted and conferred * * * and to grant to such graduates diplomas or certificates under the common seal * * * to authenticate and perpetuate the memory of such graduation."

(Act of Congress, 1821.)

A Board of Trustees, "consisting of twenty-two members. The President of the University shall be *ex-officio* a member of said Board, and the remaining twenty-one shall be divided in three classes with seven members in each class," the term of service being three years.

(Act of Congress, 1898.)

"The George Washington University shall have, and is hereby given, power to increase the number of its Trustees from time to time by two-thirds vote of the whole number of the Trustees at the time such vote is taken, to a number not exceeding forty-five."

(Act of Congress, 1905.)

Property and Endowment.—"Shall be competent and capable at law and in equity to take * * * any estate, in any messuage, lands, tenements, hereditaments, goods, chattels, moneys, and other effects, by gift, grant, bargain, sale, conveyance, assurance, will, devise, or bequest, of any person or persons whatsoever, * * * and the same to grant, bargain, or sell, convey, assure, demise, and to farm let, and place out on interest for the use of said College, in such manner as to them shall seem most beneficial to the institution, and to receive the rents, issues and profits, income and interest of the same and to apply the same to the proper use and benefit of the said College."

(Act of Congress, 1821.)

"That power is hereby given the Board of Trustees * * * to change the name of said University, * * * and thereupon the University shall be known and designated by the name adopted, and by said new name the said University shall be vested with and convey its real estate, hold, control, and administer endowments and gifts of money and property heretofore and hereafter made for the maintenance of its educational work and do and perform all acts which it now has the power to do under its said charter. Such change of name shall not in any other way change, affect, or modify in any degree the rights, privileges, obligations, and powers of the said University under the charter of February ninth, eighteen hundred and twenty-one, and the amendatory acts thereto."

(Act of Congress, 1904.)

Non-sectarian.—"That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as president, professor, tutor, or pupil, be refused admittance into said University, or denied any of the privileges, immunities, or advantages thereof, for or on account of his sentiments in matters of religion."

(Act of Congress, 1904.)

Power to Organize Colleges.—"That by and with the consent of the said University, colleges may be organized hereunder for the purpose of carrying on, in connection with the University, special lines of educational work in the arts, sciences, and liberal and technical knowledge, such colleges to be educationally a part of the system of the University, but upon independent financial foundations, and to this end any five or more persons desirous of associating themselves for the purpose of establishing a college hereunder may make, sign, and acknowledge before any officer authorized to take acknowledgment of deeds in the District of Columbia, and with the assent of the University in writing, file in the office of the Recorder of Deeds of the said District a certificate in writing, in which shall be stated: * * * Upon filing such certificate the Trustees named therein and their successors shall be a body politic, incorporated by the name and style stated in the certificate, and by that name and style shall have perpetual succession in association with the University, with power in the college to sue and be sued; plead and be impleaded; to acquire, hold, and convey property in all legal ways; to receive by gift, devise, or otherwise, and hold, control, and administer endowments and gifts of money and property thereafter made to it for the maintenance of its educational work; * * * but said college shall not confer academic or honorary degrees; such college shall hold the property of the institution and all moneys and property conveyed to it by purchase, gift, conveyance, will, devise, or bequest solely for the purpose of the educational work specified in said certificate."

(Act of Congress, 1905.)

Affiliated Colleges.—"That said University may enter into affiliated agreements with any institutions of learning outside of the District of Columbia, for the purpose of giving to students of such institutions the educational facilities of said University, and the departments of the Government in the city of Washington which are by law open to students, upon such terms as are mutually agreed upon by the said University and the affiliated institutions."

(Act of Congress, 1905.)

Boards of Visitors.—"Said Board may also appoint a board or boards of visitors for any department or departments of educational work carried on by the University, such boards of visitors to be advisory only."

(Act of Congress, 1905.)

BOARD OF TRUSTEES.

CHARLES WILLIS NEEDHAM, LL.D.,
President of the University and *ex-officio* Member of the Board.

1908.

THOMAS H. ANDERSON.
JOHN B. LARNER, LL.D.
HENNEN JENNINGS, C.E.
WAYNE MACVEAGH, LL.D.
FRANCIS G. NEWLANDS, LL.D.
HENRY B. F. MACFARLAND.
ALEXANDER GRAHAM BELL, LL.D.

1909.

THEODORE W. NOYES, LL.M.
ANDREW J. MONTAGUE, LL.D.
HENRY C. PERKINS.
DAVID ABBOT CHAMBERS,* A.M.
CHARLES D. WALCOTT, LL.D.
CHARLES W. RICHARDSON, M.D.
FRANK C. HENRY, Phar.D.

1910.

SAMUEL H. GREENE, D.D., LL.D.
SAMUEL W. WOODWARD.
EDWARD M. GALLAUDET, LL.D.
WILLIAM F. MATTINGLY, LL.D.
EUGENE LEVERING.
HENRY C. YARROW, M.D.
JOHN JOY EDSON, LL.B.

OFFICERS OF THE BOARD.

H. B. F. MACFARLAND, Chairman.
E. M. GALLAUDET, Vice-Chairman.
JOHN B. LARNER, Secretary.
CHARLES W. HOLMES, Treasurer.
WILLIAM A. DECAINDRY, Auditor.

STANDING COMMITTEES OF THE BOARD OF TRUSTEES.
1907-1908.

Executive: WOODWARD, GREENE, MATTINGLY, LARNER, GALLAUDET, EDSON, WALCOTT, JENNINGS, PERKINS, NEEDHAM.
Finance: JENNINGS, EDSON, PERKINS.
Endowment: PERKINS, WOODWARD, LEVERING.
Scholarships: GALLAUDET, BELL, LEVERING.
Buildings and Grounds: ANDERSON, NEWLANDS, MACFARLAND.
Publications: BELL, GALLAUDET, WALCOTT.
Nominations: LEVERING, NOYES, WOODWARD.
Faculty of Graduate Studies: WALCOTT, BELL, MACFARLAND.
Columbian College: GREENE, NOYES, LARNER.
College of Engineering: LARNER, EDSON, *CHAMBERS.
Division of Architecture: EDSON, JENNINGS, NOYES.
College of the Political Sciences: NEWLANDS, MACVEAGH, MONTAGUE.
Division of Education: NOYES, PERKINS, BELL.
Department of Medicine: RICHARDSON, YARROW, LARNER.
Department of Dentistry: *CHAMBERS, YARROW, WOODWARD.
Hospital: YARROW, RICHARDSON, EDSON.
Department of Law: MATTINGLY, LARNER, ANDERSON.
College of Pharmacy: HENRY, GREENE, RICHARDSON.

THE GEORGE WASHINGTON UNIVERSITY MOVEMENT.

RICHARD D. HARLAN, D.D., LL.D., Special Representative.

* Died, October 20, 1907.

COLLEGES OF THE UNIVERSITY.

Columbian College.

President of the University, *ex-officio* Member of the Board.

1908.

SAMUEL H. GREENE, D.D., LL.D., SAMUEL W. WOODWARD,
WILLIAM S. SHALLENBERGER, A.M.

1909.

THOMAS R. JONES, A.M., LL.B., DAVID A. CHAMBERS, A.M.,*
THEODORE W. NOYES, LL.M.

1910.

EUGENE LEVERING, E. M. GALLAUDET, LL.D., JOHN B. LARNIER, LL.D.

OFFICERS OF THE BOARD.

SAMUEL H. GREENE, Chairman. JOHN B. LARNER, Secretary.
EDWARD M. GALLAUDET, Vice-Chairman. JOHN JOY EDSON, Treasurer.

Washington College of Engineering.

President of the University, *ex-officio* Member of the Board.

1908.

BERNARD R. GREEN, CHARLES W. RAE, C.E.

1909.

JOHN B. LARNER, LL.D., F. H. NEWELL, B.S., S. W. STRATTON, Ph.D.

1910.

T. M. CHATARD, Ph.D., OTTO H. TITTMANN, T. COMMERFORD MARTIN.

OFFICERS OF THE BOARD.

BERNARD R. GREEN, Chairman. JOHN B. LARNER, Secretary.
JOHN JOY EDSON, Treasurer.

National College of Pharmacy.

President of the University, *ex-officio* Member of the Board.

1908.

C. B. CAMPBELL, M.D., Phar.D. LEWIS FLEMER, Phar.D.
HERBERT C. EASTERDAY, Phar.D. WILLARD S. RICHARDSON, Phar.D.

1909.

FRANK C. HENRY, Phar.D. H. E. KALUSOWSKI, M.D., Phar.D.
G. G. C. SIMMS, Phar.D. SAMUEL L. HILTON, Phar.D.

1910.

WYMOND H. BRADBURY, Phar.D. WALTER G. DUCKETT, Phar.D.
SAMUEL WAGGAMAN, M.D. FRANK P. WELLER, Phar.D.

OFFICERS OF THE BOARD.

H. E. KALUSOWSKI, Chairman. W. H. BRADBURY, Secretary.
FRANK C. HENRY, Vice-Chairman. WALTER G. DUCKETT, Treasurer.

*Died October 20, 1907.

ADMINISTRATION AND INSTRUCTION.

Officers.

CHARLES WILLIS NEEDHAM, LL.D.....PRESIDENT OF THE UNIVERSITY
OTIS D. SWETT, B.S., LL.M.....Registrar of the University

President's Council.

CHARLES WILLIS NEEDHAM, LL.D.....PRESIDENT OF THE UNIVERSITY
JAMES HOWARD GORE, Ph.D.....Professor of Mathematics
HOWARD LINCOLN HODGKINS, Ph.D. .....Professor of Physics and Dean of Washington College of Engineering
JAMES MACBRIDE STERRETT, A.M., D.D.....Professor of Philosophy
CHARLES E. MUNROE, Ph.D.....Professor of Chemistry and Dean of the Faculty of Graduate Studies
HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German
CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History
WILLIAM ALLEN WILBUR, A.M.....Professor of English and Dean of Columbian College
MITCHELL CARROLL, Ph.D.....Professor of Classical Languages
GEORGE NEELY HENNING, A.M.....Professor of Romance Languages
PERCY ASH, C.E.....Professor of Architecture, in Charge of Division of Architecture
C. WILLIAM A. VEDITZ, Ph.D., LL.B.....Professor of Economics and Acting Dean of the College of the Political Sciences
WILLISTON S. HOUGH, Ph.M..Professor of Psychology and Education, in Charge of Division of Education
FRANK LEIGHTON DAY, Ph.D.....Professor of Semitic Languages
W. F. R. PHILLIPS, M.D.....Dean of the Faculty of Medicine
J. HALL LEWIS, D.D.S.....Dean of the Faculty of Dentistry
WILLIAM R. VANCE, Ph.D., LL.B.....Dean of the Faculty of Law
HENRY E. KALUSOWSKI, M.D., Phar.D..Dean of the National College of Pharmacy

University Council.

Professors and Assistant Professors in all Departments and Colleges of the University constitute the University Council. Their names appear in the list of Members of Faculties and Teaching Staff.

MEMBERS OF FACULTIES AND TEACHING STAFF.

(Arranged, with the exception of the President, in groups, in the order of appointment.)

CHARLES WILLIS NEEDHAM, LL.D.....PRESIDENT OF THE UNIVERSITY

Professors.

J. FORD THOMPSON, M.D.....Professor Emeritus of Surgery
ALBERT F. A. KING, A.M., M.D., LL.D.....Professor of Obstetrics and Dean Emeritus of the Faculty of Medicine
THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D.....Professor of Zoölogy
JAMES HOWARD GORE, Ph.D.....Professor of Mathematics
GEORGE N. ACKER, A.M., M.D.....Professor of Pediatrics and of Clinical Medicine
HOWARD LINCOLN HODGKINS, Ph.D.....Dean of Washington College of Engineering and Professor of Physics
CLEVELAND ABBE, A.M., LL.D.....Professor of Meteorology
HENRY C. YARROW, M.D.....Professor of Dermatology
JAMES HALL LEWIS, D.D.S.....Dean of the Faculty of Dentistry and Professor of Dental Prosthetics
D. KERFOOT SHUTE, A.B., M.D.....Professor of Anatomy and of Clinical Ophthalmology
HENRY CLAY THOMPSON, D.D.S.....Professor of Operative Dentistry
JOHN MARSHALL HARLAN, LL.D.....Professor of Law
DAVID J. BREWER, LL.D.....Professor of Law
WILLIAM F. R. PHILLIPS, M.D.....Dean of the Faculty of Medicine, Professor of Hygiene and of Practical Anatomy
HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German
STERLING RUFFIN, M.D.....Professor of the Theory and Practice of Medicine and of Clinical Medicine
WILLIAM K. BUTLER, A.M., M.D.....Professor of Ophthalmology
JOHN VAN RENSSELAER, A.B., M.D.....Professor of Clinical Surgery
JAMES MACBRIDE STERRETT, A.M., D.D.....Professor of Philosophy
CHARLES EDWARD MUNROE, Ph.D.....Dean of the Faculty of Graduate Studies and Professor of Chemistry
GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy
CHARLES W. RICHARDSON, M.D..Professor of Laryngology and Otology
FRANK WIGGLESWORTH CLARKE, Sc.D...Professor of Mineral Chemistry
HARVEY WASHINGTON WILEY, Ph.D., M.D...Professor of Agricultural Chemistry
FRANK HAGAR BIGELOW, A.M., L.H.D.....Professor of Astro-Physics
G. WYTHE COOK, M.D.....Professor of Clinical Medicine

MELVILLE CHURCH, LL.M.....Professor of the Law of Patents
WILLIAM ALLEN WILBUR, A.M.....Dean of Columbian College and Professor of English
J. WESLEY BOVÉE, M.D.....Professor of Gynecology
THOMAS A. CLAYTOR, M.D.....Professor of Materia Medica and Therapeutics and of Clinical Medicine
A. R. SHANDS, M.D.....Professor of Orthopedic Surgery
CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History
RANDOLPH B. CARMICHAEL, M.D.....Professor of Clinical Dermatology
FRANCIS R. HAGNER, M.D.....Clinical Professor of Genito-Urinary Surgery and Venereal Diseases
JOHN B. NICHOLS, M.D.....Professor of Histology
WALTER C. CLEPHANE, LL.M.....Professor of Law
DAVID JAYNE HILL, LL.D.....Professor of European Diplomacy
MITCHELL CARROLL, Ph.D.....Professor of Classical Languages, Director of University Publications
PAUL BARTSCH, Ph.D.....Professor of Zoölogy
EDWIN C. BRANDENBURG, LL.M.....Professor of Law
ARTHUR PETER, LL.M.....Professor of Law
W. C. WOODWARD, M.D., LL.M.....Professor of Medical Jurisprudence
ALBERT L. STAVELY, M.D.....Clinical Professor of Gynecology
HENRY P. BLAIR, LL.M.....Professor of Law
STANTON J. PEELLE, LL.D.....Professor of Law
GEORGE N. HENNING, A.M.....Professor of Romance Languages
PERCY ASH, C.E.....Professor of Architecture, in Charge of Division of Architecture
JOHN PAUL EARNEST, A.M., LL.M.....Professor of Law
OSCAR P. AUSTIN.....Professor of Commerce and Statistics
WILLIAM REYNOLDS VANCE, Ph.D., LL.B.....Dean of the Faculty of Law and Professor of Law
J. H. P. BENSON, D.D.S.....Professor of Operative Technics
J. ROLAND WALTON, D.D.S.....Professor of Prosthetic Technics
WILLIAM A. WHITE, M.D.....Professor of Mental Diseases
ERNEST G. LORENZEN, Ph.B.., LL.B., J.U.D.....Professor of Law
C. WILLIAM A. VEDITZ, Ph.D., LL.B.....Professor of Economics and Acting Dean of the College of the Political Sciences
GEORGE LANSING RAYMOND, L.H.D.....Professor of Æsthetics
ALBERT BURNLEY BIBB.....Professor of Architecture
WILLISTON S. HOUGH, Ph.M..Professor of Psychology and Education, in Charge of the Division of Education
HENRY L. ABBOT, LL.D., Brig. Gen., U. S. A., Professor of Hydraulic Engineering
GEORGE M. STERNBERG, Surgeon General, U. S. A., Professor of Preventive Medicine

JAMES BROWN SCOTT, M.A., J.U.D.....Professor of Law
EDWARD BENNETT ROSA, Ph.D.....Professor of Physics
FRANK LEIGHTON DAY, Ph.D....Professor of Semitic Languages and Literatures
ARTHUR A. SNYDER, M.D.....Clinical Professor of Surgery
I. W. BLACKBURN, M.D.....Professor of Morbid Anatomy
ALBERT MANN, A.M., Ph.D.....Professor of Botany
SAMUEL WAGGAMAN, M.D., Phar.D.....Professor of Materia Medica, Botany and Toxicology
WILLIAM F. HILLEBRAND, Ph.D., Phar.D...Professor of Chemistry and Physics.
FREDERICK A. HOLTON, B.S., Phar.D..Professor of Analytical Chemistry
HENRY E. KALUSOWSKI, M.D., Phar.D....Dean of National College of Pharmacy and Professor of Pharmacy
BURTON, J. HOWARD, B.S.....Professor of Microscopy
EDWARD S. THURSTON, A.M., LL.B.....Professor of Law
WILLIAM C. DENNIS, A.M., LL.B.....Professor of Law
HARRIETT STRATTON ELLIS, A.B.....Dean of Women and Instructor in English
SHEPHERD IVORY FRANZ, Ph.D.....Professor of Physiology and Experimental Psychology
HENRY PARKER WILLIS, Ph.D.....Professor of Finance
W. W. WILLOUGHBY, Ph.D.....Professor of Political Science
J. R. DE FARGES, M.D.....Professor of Oral Surgery
J. J. KINYOUN, Ph.D., M.D....Professor of Pathology and Bacteriology
C. DWIGHT MARSH, Ph.D.....Professor of Zoölogy
CHARLES SIDNEY SMITH, Ph.D.....Professor of Greek and Latin
WENDELL P. STAFFORD, LL.D.....Professor of Law
JOSIAH A. VAN ORSDEL, LL.D.....Professor of Law
ROBERT N. HARPER, Ph.G.....Professor of Mercantile Pharmacy
C. V. WILLIAMS .....Professor of Mercantile Pharmacy
ALEXANDER MUNCASTER, Phar.D., LL.B., LL.M.....Professor of Pharmaceutical Jurisprudence

Assistant Professors.

EDWARD E. MORSE, M.D.....Assistant Professor of Obstetrics
EDWARD G. SEIBERT, M.D.....Assistant Professor of Chemistry
NEVIL MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry
JULIAN M. CABELL, M.D.....Assistant Professor of Obstetrics
PHILANDER BETTS, E.E....Assistant Professor of Electrical Engineering
EDWIN A. HILL, Ph.D.....Assistant Professor of Chemistry
D. W. PRENTISS, M.D.....Assistant Professor of Histology
C. S. WHITE, M.D.....Assistant Professor of Surgery
T. S. D. GRASTY, M.D.....Assistant Professor of Bacteriology and Pathology

THOMAS MALCOLM PRICE, Ph.D.....Assistant Professor of Chemistry
RAY SMITH BASSLER, Ph.D.....Assistant Professor of Geology
L. H. TAYLOR, M.D.....Assistant Professor of Surgery
JOHN R. WELLINGTON, M.D.....Assistant Professor of Surgery
JOHN H. LINDSEY, M.D.....Assistant Professor of Clinical Medicine
TIMOTHY W. STANTON, Ph.D.....Assistant Professor of Paleontology
PAUL N. PECK, A.M.....Assistant Professor of Mathematics
DE WITT C. CROISSANT, A.B.....Assistant Professor of English
ALFRED F. W. SCHMIDT, A.M.....Assistant Professor of German, and Librarian
CHARLES T. BASSETT, D.D.S...Assistant Professor in Charge of Dental Infirmary
H. H. DONNALLY, A.M., M.D..Assistant Clinical Professor of Medicine
JOHN T. KELLEY, M.D.....Assistant Clinical Professor of Surgery
DUFF G. LEWIS, M.D.....Assistant Clinical Professor of Surgery
JOSHUA R. CLARK, JR., B.S., LL.B.....Assistant Professor of Law
JONATHAN R. HAGAN, D.D.S.....Assistant Professor of Materia Medica and Therapeutics
WILLIAM RAY MANNING, Ph.D.....Assistant Professor of Diplomatic History
WILLIAM CARL RUEDIGER, Ph.D....Assistant Professor of Educational Psychology
LOUIS COHEN, B.S.....Assistant Professor of Mathematics
W. F. M. SOWERS, A.B., M.D.....Assistant Professor of Surgery
F. FREMONT-SMITH, M.D.....Assistant Professor of Pediatrics
PERLEY G. NUTTING, Ph.D.....Assistant Professor of Physics
M. X. SULLIVAN, Ph.D.....Assistant Professor of Physiology
EDWIN V. DUNSTAN, C.E....Assistant Professor of Civil Engineering
OSCAR A. MECHLIN, C.E.....Assistant Professor of Civil Engineering
ARTHUR CUTTS WILLARD, B.S.....Assistant Professor of Mechanical Engineering
CHARLES MASON REMEY.....Assistant Professor of Architecture
JAMES FREDERICK PEAKE, A.M.....Assistant Professor of History
EDGAR BUCKINGHAM, Ph.D.....Assistant Professor of Physics
HURON W. LAWSON, M.D....Assistant Professor of Bacteriology and Pathology
EDGAR P. COPELAND, M.D....Assistant Clinical Professor of Pediatrics

Instructors, Demonstrators and Assistants.

SAMUEL H. GREENE, JR., M.D.....Instructor in Anatomy
HOMER S. MEDFORD, M.D.....Instructor in Obstetrics
L. H. REICHELDERFER, M.D.....Instructor in Medicine

J. L. Riggles, M.D.....Instructor in Anatomy
H. C. Macatee, M.D.....Instructor in Medicine
G. Brown Miller, M.D.....Instructor in Gynecology
John Wilmer Latimer, LL.B.....Instructor in Law
Frank L. Molby.....Instructor in Freehand Drawing
O. A. M. McKimmie, M.D.....Clinical Instructor in Laryngology and Ophthalmology
H. S. Dye, M.D., Clinical Instructor in Laryngology and Ophthalmology
Otis D. Swett, B.S., LL.M.....Instructor in Chemistry
Henry R. Elliott, M.D.....Instructor in Physiology
Walter H. Merrill, M.D.....Instructor in Electro-Therapeutics
Adolph A. Hoehling, Jr., LL.M..Associate Justice of the Moot Court of Appeals
B. M. Randolph, M.D.....Instructor in Pharmacology
W. A. Frankland, M.D.....Instructor in Clinical Gynecology and Assistant Demonstrator of Anatomy
H. C. Coburn, M.D.....Instructor in Physical Diagnosis
J. Lawn Thompson, M.D.....Instructor in Surgery
George Albert Ross, M.S.....Instructor in Mathematics
Everett W. Varney, A.B.....Instructor in Physics
Frederick I. Bartlett, D.D.S.....Instructor in Crown and Bridge Work and in Prosthetic Technics
Truman Abbe, M.D.....Instructor in Physiology
Arthur B. Cooper, D.D.S.....Instructor in Porcelain Work
A. Barnes Hooe, M.D.....Instructor in Gynecology
Allen S. Wolfe, D.D.S.....Instructor in Crown and Bridge Work and Prosthetic Technics
Henri Baulig, Lic. ès lettres.....Instructor in Romance Languages
Alfred G. Buhrman.....Clerk of the Moot Court
Walter Fischer, A.M.....Instructor in Botany
Asaph Hall, Ph.D.....Instructor in Mathematics
Howard Lee McBain, Ph.D.....Instructor in Political Science
George Morton Churchill, A.M.....Instructor in History
Julia T. Macmillan, A.B.....Assistant in Zoölogy
Charles W. Mortimer, B.S., M.E..Instructor in Electrical Engineering
William B. Schulz, A.B.....Instructor in German
Julian C. Smallwood, M.E.....Instructor in Mechanical Engineering
F. Charles Starr, B.S.....Instructor in Civil Engineering
Ellery C. Stowell, A.B., LL.B.....Instructor in International Law
Harry S. Michie....Director of Arts and Crafts School and Instructor in Applied Design
Edward E. Richardson, Ph.D.....Instructor in Philosophy

BENJAMIN MATHER WOODBRIDGE, B.A.....Instructor in Romance Languages
W. W. WILKINSON, M.D.....Instructor in Physical Diagnosis
CADMUS LINDEN ODOR, D.D.S.....Demonstrator of Operative Technics
W. FRANCIS LAWRENCE, D.D.S....Demonstrator of Prosthetic Technics
JOSEPH WOOD POLLOCK, D.D.S.....Assistant Demonstrator in the Dental Infirmary
ARTHUR MILLARD TRIVETT, D.D.S.....Assistant Demonstrator in the Dental Infirmary
THOMAS R. WILKERSON, D.D.S.....Assistant Demonstrator in the Dental Infirmary
GEORGE B. HEINECKE, M.D.....Assistant Demonstrator of Anatomy
WILLIAM E. HILLYER, M.S.....Assistant in Chemistry
WILBUR R. BRANDENBURG, M.D.....Demonstrator of Bacteriology and Pathology
E. T. M. FRANKLIN, M.D.....Assistant in Surgery
W. J. FRENCH, M.D.....Assistant in Surgery
A. L. HUNT, M.D.....Assistant in Surgery
CHARLES W. HYDE, M.D.....Assistant in Surgery
GLENN I. JONES, M.D.....Assistant Demonstrator of Anatomy
E. P. MAGRUDER, A.M., M.D.....Assistant Demonstrator of Anatomy
DANIEL T. BIRTWELL, M.D.....Assistant Demonstrator of Anatomy
A. PATTON CLARK, Phar.D.....Assistant in Chemistry
W. O. OWEN, M.D.....Assistant Demonstrator of Anatomy
M. E. HARRISON, D.D.S.....Assistant Demonstrator in the Dental Infirmary
HOWARD M. BRADBURY, Phar.D.....Assistant in Chemistry
ROBSON DE S. BROWN, A.B.....Assistant in Chemistry
HORACE HATCH CUSTIS, B.A.....Assistant in Chemistry
M. WALTON HENDRY, A.B.....Assistant in Greek and Latin
FRANK A. HORNADAY, B.S.....Assistant in Chemistry
HAROLD L. AMOSS, B.S.....Assistant in Chemistry
CHARLES RUSSELL LOMBARD, B.S.....Assistant in Architecture
H. F. ARTHUR SCHOENFELD, A.B.....Assistant in History
MARIAN LANE.....Assistant in Applied Design
FRANCES L. THOMSON.....Assistant in Applied Design
HELEN R. ALBEE .....Assistant in Applied Design
R. D. WOLFE .....Pharmacist in the Hospital
J. WINSLOW TAYLOR...Assistant Demonstrator in the Dental Infirmary
CLARA S. LUDLOW, Ph.D..Demonstrator in Histology and Embryology
J. WILTON GRADY, Phar.D.....Assistant in Pharmacy
LOUIS B. CASTELL, Phar.D.....Assistant in Pharmacy

Lecturers.

OTIS T. MASON, LL.D.....Lecturer on Anthropology
WILLIAM T. HARRIS, LL.D.....Lecturer on the Philosophy of History
JOSEPH M. HELLER, M.D.....Lecturer on Diseases of the Tropics
FREDERICK E. FOWLE, JR., S.B.....Lecturer on Astro-Physics
WILLIAM HAMILTON, Ph.D.....Lecturer on History
NOBLE P. BARNES, M.D.....Lecturer on Materia Medica
JOHN W. FOSTER, LL.D.....Lecturer on Diplomacy and Treaties
ELMER ELLSWORTH BROWN, Ph.D., LL.D.....Lecturer on Education
GEORGE E. MYERS, Ph.D.....Lecturer on Education
WILLARD S. SMALL, Ph.D.....Lecturer on Education
WILLIAM W. BLACK, A.M.....Lecturer on Education
STEPHEN ELLIOTT KRAMER, B.S.....Lecturer on Education
JOHN BALL OSBORNE, M.A.....Lecturer on the Consular Service
HARLAN UPDEGRAFF, Ph.D.....Lecturer on Education

Library Staff.

Arts and Sciences.

ALFRED F. W. SCHMIDT, A.M.....Librarian
M. ALICE MATTHEWS.....Assistant Librarian
LINDA L. CLIFT.....Assistant
LOUISE BACHE.....Assistant
MILDRED F. JOHNSTON.....Assistant
W. T. SHEPHERD Ph.D.....Assistant

Medicine.

W. F. MCLAUGHLIN.....Assistant
SIDNEY L. CHAPPELL.....Assistant

Law.

ANDREW CHRISTENSEN.....Assistant
PAUL A. REHR.....Assistant

ORGANIZATION.

The educational work of the George Washington University is organized as follows:

DEPARTMENT OF ARTS AND SCIENCES.

THE FACULTY OF GRADUATE STUDIES

Offers graduate seminary, laboratory and lecture courses leading to the Master's degrees, the engineering degrees (C.E., E.E., M.E.) and the degrees of Doctor of Jurisprudence and Doctor of Philosophy.

THE FACULTY OF UNDERGRADUATE STUDIES

Offers undergraduate courses in arts, philosophy and science in the following colleges and divisions:

COLUMBIAN COLLEGE.

Liberal culture courses leading to the degree of Bachelor of Arts and a specialized course leading to the degree of Bachelor of Science in Chemistry.

WASHINGTON COLLEGE OF ENGINEERING.

Courses leading to the Bachelor of Science degree in Civil, Electrical and Mechanical Engineering.

DIVISION OF ARCHITECTURE.

Courses leading to the degree of Bachelor of Science in Architecture; and a three-year technical course for architectural draughtsmen.

COLLEGE OF THE POLITICAL SCIENCES.

Courses in history, politics, economics and international law leading to the degrees of Bachelor of Arts and Master of Diplomacy.

DIVISION OF EDUCATION.

Courses in liberal arts and pedagogy leading to the Bachelor of Arts degree, with Teacher's Diploma; also technical courses in Arts and Crafts.

PROFESSIONAL DEPARTMENTS.

DEPARTMENT OF MEDICINE.

A four-year course leading to the degree of Doctor of Medicine.

DEPARTMENT OF DENTISTRY.

A three-year course leading to the degree of Doctor of Dental Surgery.

DEPARTMENT OF LAW.

Three-year course leading to the degree of Bachelor of Laws, and a fourth-year course leading to the degrees of Master of Laws, and Master of Patent Law.

NATIONAL COLLEGE OF PHARMACY.

A three-year course leading to the degree of Doctor of Pharmacy.

COLLEGE OF VETERINARY MEDICINE.

A three-year course leading to the degree of Doctor of Veterinary Medicine.

THE UNIVERSITY ASSEMBLY.

The University Assembly meets regularly on Wednesdays throughout the session at 12 o'clock, in University Hall. Members of the faculties and students of all departments are expected to be present. The exercises are usually presided over by the President. Religious services

are held, official announcements are made, and an address is given by the President, a member of the Faculty, or an invited speaker upon an ethical or educational topic.

THE UNIVERSITY LIBRARY.

The University Library comprehends (1) the Library of the Department of Arts and Sciences, (2) the Law Library, and (3) the Medical Library. Details are given under the sections of the Catalogue devoted to the several departments. The Germanic Library of the late Professor Richard Heinzel, of the University of Vienna, recently acquired by the University, contains 7200 volumes and pamphlets bearing on Germanic philology and literature, and a large number of works and periodicals in the cognate branches, especially Anglo-Saxon, Old English, the Romance and Slavic languages.

The Library of Congress is steadily perfecting its collections of standard works in the various branches of university study, and advanced and graduate students are there given every facility for pursuing their investigations.

ANNUAL COMMENCEMENT AND FALL AND WINTER CONVOCATIONS.

The Annual Commencement is held on the first Wednesday in June. The Fall Convocation is held on the third Wednesday in October. The Winter Convocation is held on the 22d of February. Degrees are publicly conferred on Commencement Day and at the Fall and Winter Convocations. Members of the faculties and candidates for degrees are expected to appear in academic caps and gowns.

PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS.

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

"*Resolved by the Senate and House of Representatives of the United States of America in Congress assembled,* That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incor-

porated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

Libraries.—In the archives of the State and other Departments and in the statistical bureaus of these Departments are extensive accumulations of original historical documents and data which are invaluable to graduate students in history, political science, economics, sociology, and the allied topics of research. The Library of Congress, the Public Library of the District of Columbia, and the many highly specialized libraries attached to the various Departments of the Government are made easily accessible.

Museums.—In the collections of the National Museum, the Smithsonian Institution, the Army Medical Museum, the Museum of Naval Hygiene, and the departmental museums are found extensive series of specimens of great value to the student of anthropology, archæology, mineralogy, geology, paleontology, biology in all its branches, and other sciences. In the Patent Office are the records of the many inventions that have contributed so materially during our national existence to modify the conditions under which we live. The Army Medical Museum, which is open for inspection daily, presents a field for study superior to any other institution of the kind, either in this country or in Europe. Its library of medical books and periodicals is the best in the world. It has an unrivaled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind. It also contains almost numberless crania of every human nationality. In the National Museum is found the most complete and best arranged collection of Materia Medica in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principal.

Laboratories.—In the experimental sciences the most notable facilities are available, since in Washington are centered the Weather Bureau, with its appliances for the study of national problems in meteorology; the Coast and Geodetic Survey, from which the surveys of our territory are carried on and by which the figure of the earth and terrestrial magnetism are experimentally determined; the Hydrographic Bureau, which conducts the surveys of foreign coasts and the study of the oceans; the Bureau of Standards, which standardizes the instruments used in measuring mass, volume, heat, light, electricity, and all other magnitudes; the Geological Survey, which investigates the structure of the earth, ascertains our mineral resources, and supervises the sources of supply and means for distribution and control of water for irrigation purposes; the Department of Agriculture, which exists primarily for conducting original investigations for the benefit of agriculture in all its branches, and is therefore provided with extensively equipped laboratories for the study of chemistry, botany, vegetable physiology, entomology, bio-chemistry, bacteriology, comparative pathology, parasitology, the physics and chemistry of the soil, forestry, and microscopy; the Naval Observatory and Nautical Almanac Office, where researches in astronomy and navigation are conducted; the Marine Hospital Service, which deals with national problems in hygiene; the Bureaus of Construction and of Steam Engineering of the Navy, having supervision over the designs and construction of our ships; the Bureau of Yards and Docks, having supervision over the engineering operations at our navy yards and naval stations; the Bureau of Equipment, which is charged with the electrical installations for the Navy; the United States Signal Corps, which has supervision over the electrical installations for the Army; the Engineer Corps of the Army, which is charged with river and harbor improvements, and the Light-House Board, which controls the system for lighting our navigable waters.

Of chemical laboratories for conducting the tests of materials, and especially for research work, there are now eighteen attached to the different departments at Washington. An extensive new laboratory is being equipped for the Marine Hospital and Public Health Service. This is the national health department of the Government. In this laboratory and in the laboratories of the Department of Agriculture there are superior facilities for all kinds of bacteriological and chemical investigations, and for the study of bio-chemistry, comparative pathology, and parasitology. The new laboratories and hospitals of the Army and the Navy also offer many opportunities for instruction.

Washington offers exceptional opportunities for special or advanced work in Mechanical Engineering. The departments of the Government charged with designing are all located here. In the Bureaus of

Steam Engineering and of Construction and Repair, and Ordnance, of the Navy, are projected a large amount and extensive variety of heavy constructional work. Here is also located the United States Navy or Ordnance Gun Factory. The Ordnance Proving Station is but a few miles down the Potomac. Tours of inspection may be made to the large steel works and shipbuilding plants in Baltimore, and to the shipbuilding plant at Newport News.

PART II.

DEPARTMENTS OF THE UNIVERSITY.

Department of Arts and Sciences.

The Department of Arts and Sciences is organized as follows:

THE FACULTY OF GRADUATE STUDIES

Offers graduate seminary, laboratory, and lecture courses leading to the master's degrees, the engineering degrees (C.E., E.E., M.E.), and the degrees of Doctor of Jurisprudence and Doctor of Philosophy.

THE FACULTY OF UNDERGRADUATE STUDIES

Offers undergraduate courses in arts, philosophy, and science, in the following colleges and divisions:

Columbian College.
Washington College of Engineering.
Division of Architecture.
College of the Political Sciences.
Division of Education.

FACULTY OF GRADUATE STUDIES

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.....PRESIDENT OF THE UNIVERSITY
CHARLES E. MUNROE, Ph.D.....Dean, and Professor of Chemistry
JAMES HOWARD GORE, Ph.D.....Professor of Mathematics
HOWARD LINCOLN HODGKINS, Ph.D.....Professor of Physics
JAMES MACBRIDE STERRETT, D.D.....Professor of Philosophy
HERMANN SCHOENFELD, Ph.D.....Professor of German
CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History
WILLIAM ALLEN WILBUR, A.M.....Professor of English
MITCHELL CARROLL, Ph.D.....Professor of Classical Languages
GEORGE N. HENNING, A.M.....Professor of Romance Languages
THEODORE N. GILL, Ph.D.....Professor of Zoölogy
CLEVELAND ABBE, LL.D.....Professor of Meteorology
FRANK W. CLARKE, Sc.D.....Professor of Mineral Chemistry
HARVEY W. WILEY, Ph.D.....Professor of Agricultural Chemistry
FRANK H. BIGELOW, L.H.D.....Professor of Astro-Physics
GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy
PAUL BARTSCH, M.S., Ph.D.....Professor of Zoölogy
PERCY ASH, C.E.....Professor of Architecture
C. W. A. VEDITZ, Ph.D.....Professor of Economics
GEORGE LANSING RAYMOND, L.H.D.....Professor of Æsthetics

WILLISTON S. HOUGH, Ph.M...Professor of Psychology and Education
HENRY L. ABBOTT, LL.D., Brig. Gen. U. S. A.....Professor of Hydraulic Engineering
GEORGE M. STERNBERG, M.D., LL.D., Surgeon Gen. U.S.A....Professor of Preventive Medicine
EDWARD B. ROSA, Ph.D.....Professor of Physics
ASAPH HALL, JR., Ph.D.....Professor of Astronomy
SHEPHERD IVORY FRANZ, Ph.D..Professor of Experimental Psychology
ALBERT MANN, A.M., Ph.D.....Professor of Botany
WILLIAM R. VANCE, LL.B., Ph.D.....Professor of Law
ERNEST G. LORENZEN, Ph.B., J.U.D.....Professor of Law
N. MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry
CHARLES SIDNEY SMITH, Ph.D..Assistant Professor of Greek and Latin
EDWIN A. HILL, Ph.D.....Assistant Professor of Stereo-Chemistry
THOMAS M. PRICE, Ph.D.....Assistant Professor of Biochemistry
PHILANDER BETTS, M.S., E.E.....Assistant Professor of Electrical Engineering
TIMOTHY W. STANTON, Ph.D.....Assistant Professor of Paleontology
EDGAR BUCKINGHAM, Ph.D.....Assistant Professor of Physics
EDWIN DUNSTAN, C.E.....Assistant Professor of Civil Engineering
OSCAR A. MECHLIN, C.E.....Assistant Professor of Civil Engineering
ARTHUR C. WILLARD, B.S.....Assistant Professor of Mechanical Engineering
WILLIAM C. RUEDIGER, Ph.D.....Assistant Professor of Educational Psychology
WILLIAM T. HARRIS, LL.D.....Lecturer on Philosophy
FREDERICK E. FOWLE, JR., S.B.....Lecturer on Astro-Physics
OTIS D. SWETT, B.S.....Secretary

The Division of Graduate Studies is charged with the development and supervision of research courses leading to the higher degrees. This work was organized at this University in 1893 with a view to enable properly equipped students to avail themselves of the advantages which Washington offers for original investigations. Announcements relative to the official matters of this Division are made at the University Assembly, and professors and students of this Division are expected to be governed by them.

HIGHER DEGREES.

The higher degrees conferred in course by the University in this Division of the Department of Arts and Sciences are Master of Arts (A.M.), Master of Science (M.S.), Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), Doctor of Jurisprudence (Jur.D.), and Doctor of Philosophy (Ph.D.).

ADMISSION.

Candidates for admission to courses for higher degrees must present the diplomas they hold, or certificates that they have received such diplomas, to the Registrar of the University, and obtain from him application blanks. When properly filled and signed, these applications are to be submitted to the Dean of the Faculty of Graduate Studies, together with catalogues of the institutions from which they hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE.

To be admitted to candidacy for the Master's degree a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued must have been such as to qualify the candidate for pursuing the subjects chosen for the Master's degree. In seeking admission the applicant must state whether he desires to obtain the Specialist degree or the Liberal Culture degree.

The Specialist degree is designed for students who propose to proceed toward the Doctor of Philosophy degree. Such candidates are required to complete one major and two minor subjects selected from properly correlated University subjects approved by the Faculty upon recommendation of the professors in charge and to present a satisfactory dissertation. Only one of the minor topics may be selected from the University subject which includes his major topic. Work for which this degree has been awarded may be credited as one year of work toward the Doctor of Philosophy degree, provided that it be in the same field of work.

The Liberal Culture degree is designed for students who do not intend to specialize in their work. Such candidates are required to complete three full courses of studies, of two or three hours each, distributed among three University subjects, not more than six hours of which shall be given to any one subject. These subjects must have the approval of the Faculty on the recommendation of the professors in charge. The candidate must also present a dissertation in the field to which his major subject belongs.

A candidate for a Master's degree must pass at least one full year in residence and study at this University, and no work done by him for the Bachelor's degree shall be counted again for a higher degree.

HIGHER DEGREES IN ENGINEERING.

To be admitted to candidacy for higher degrees in Engineering a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree in Engineering, and of such a character as to fit him to pursue to advantage the study of advanced engineering topics. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued for the Bachelor's degree must be approved by the Faculty as qualifying the candidate for pursuing the chosen line of study for the degree sought.

A candidate for a degree in Engineering shall pass at least one full year of residence and study at this University, sustain satisfactory examinations on the studies pursued and present an acceptable thesis, together with a bibliography. Three full courses is the minimum required as constituting a full year's work. The courses chosen must be passed upon by the Faculty of Graduate Studies and have the approval of the professors under whom they are to be taken.

DOCTOR'S DEGREES.

The degree of Doctor of Jurisprudence or Doctor of Philosophy is conferred upon a student who has pursued specialized courses in University Subjects; engaged in original research in certain of the various departments of law, letters or science under university auspices, for a period of not less than three years; has submitted an acceptable thesis, and has met all the requirements prescribed. The degree is given for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can be admitted to candidacy for the Doctor's degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and of such a character as to fit him to pursue to advantage researches in the field chosen for graduate work. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfils the requirements. The applicant may be credited with graduate work done at other universities, provided such work is shown to be of grade similar to that required here, but the last year must be spent in residence at this University and the other requirements of the degree as prescribed must be fulfilled.

The candidate for the Doctor's degree shall offer three topics from the University Subjects—one major and two collateral minor studies—

the combination to be approved by the Faculty of Graduate Studies. These must be pursued under the guidance of a committee consisting of the professors in charge of the University Subjects in which the studies are pursued, with the professor in the major subject as chairman. This committee will determine his division of time, study, and research among the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work, and each minor topic during at least one year. The candidate shall pass satisfactory examinations upon the three subjects selected. He must satisfy the Faculty that he can read understandingly, in the original, French and German works pertaining to his special field. In order to graduate the candidate must possess a broad acquaintance with his major subject and he must present a dissertation upon some topic approved by the professor in charge of his major subject, which shall be a contribution to knowledge and which shall be accompanied by an adequate bibliography.

EXAMINATIONS.

Candidates must pass written examinations upon all his topics. The examinations upon the minor topics may be taken at the close of the respective years in which these topics are completed, or later, at the discretion of the examiner. The final written examination on the major topic shall cover the candidate's entire university work, and shall be given when the professor of that subject is satisfied that the student has taken sufficient work to warrant such an examination being taken.

Every candidate for a Doctor's degree must pass an oral examination in all these subjects, and must defend his dissertation in the presence of the Faculty of Graduate Studies, or of so many of its members as may desire or may be designated by the Faculty to attend, and such other specialists as it may invite. The oral examination will not be confined to the dissertation nor to courses of study pursued at this University, but the candidate is expected to show a satisfactory knowledge of his major subject as a whole, and a general acquaintance with the broader field of knowledge of which this subject forms a part. If a student has satisfactorily passed his final written examinations, he may be permitted to complete his dissertation away from the University and to postpone the taking of his oral examination until he has thus completed his dissertation.

The subjects from which the candidate's selection may be made, as the Faculty may determine in each case, are as follows:

Agriculture, Applied Mathematics, Architecture, Astronomy, Astro-Physics, Bacteriology, Botany, Chemistry, Classical Archæology, Eco-

nomics, Education, Civil Engineering, Electrical Engineering, Hydraulic Engineering, Mechanical Engineering, English, Ethics, Geology and Mineralogy, Germanic Languages and Literature, Greek Language and Literature, Histology and Embryology, History, International Law and Diplomacy, Latin Language and Literature, Law, Mathematics, Meteorology, Pathology, Philosophy, Physics, Physiology and Pharmacology, Political Sciences, Preventive Medicine, Psychology, Romance Language and Literature, Semitic Languages and Literature, Sociology, Zoölogy.

DEGREE OF DOCTOR OF JURISPRUDENCE.

Candidates for this degree must hold the degree of Bachelor of Law from this University or from some other institution requiring equivalent work as a prerequisite for this degree, in addition to satisfying the requirements for admission to candidacy for a Doctor's degree set forth above. He must possess a reading knowledge of Latin, French, and German. His major topic, and at least one of his minor topics, must be in subjects taught in the Department of Law and Jurisprudence, but the other minor may be chosen from any University Subject which is properly related to his major topic. The degree is given for high attainments and proved ability to do research work in some special branch of law, as determined by the various tests applied.

DEGREE OF DOCTOR OF PHILOSOPHY.

Candidates for this degree may, with the approval of the Faculty upon recommendation of the professors in charge, select their topics from properly correlated University Subjects, but only one of the minor topics may be in the subject which includes the major topic. He must by the tests applied prove his ability to do research work and his thorough acquaintance with the literature of the subject of which his dissertation treats.

REGULATIONS REGARDING DISSERTATIONS.

Dissertations must be presented to the Dean not later than May 1 for graduation in June, or January 3 for graduation at the Winter Convocation. They must be typewritten on official dissertation paper, which may be obtained from the Treasurer of the University. The dissertation will be presented by the Dean to the Faculty, and by it referred to a committee for examination as to its merit. After their acceptance, dissertations, with their accompanying drawings, are the property of the University, and must be deposited in the University archives, but the authors of them are permitted to make copies. The candidate shall arrange, to the satisfaction of the Faculty, to print his dissertation within one year after the degree is granted, under the supervision of the professor in charge of his major subject, and shall

present one hundred copies to the University, to be distributed among institutions of learning.

DOCTORATE DISPUTATION.

A Doctorate Disputation was held publicly in University Hall, May 27, 1907. The theses that were successfully defended, the candidates, and the members of the boards of experts were as follows:

Thesis: Germanentum, Gottmenschentum. By Rev. George Brodthage, Universities of Strassburg, Berlin, and Göttingen. Before Rev. David H. Buell, S. J., President Georgetown University; Mr. Leo Vogel, E.E. and M.P., of Switzerland; Yonkheer R. de Marees von Swinderen, E.E. and M.P., of the Netherlands. Professor Hermann Schoenfeld, Ph.D., LL.D., presiding.

Thesis: The simultaneous measurement of the capacity and power factor of condensers. By Frederick Warren Grover, B.S., 1899, Massachusetts Institute of Technology; M.S., 1901, Wesleyan University. Before Daniel W. Shea, Ph.D., Professor of Physics, Catholic University of America; Lyman J. Briggs, Ph.D., Physicist, U. S. Department of Agriculture; Arthur L. Day, Ph.D., Director Geophysical Laboratory, Carnegie Institution. Professor Edward B. Rosa, Ph.D., presiding.

Thesis: Mechanism and teleology. By Edward Elliott Richardson, B.S., 1904; M.D., 1895, Columbian University; M.S., 1905, George Washington University. Before R. S. Woodward, Ph.D., President Carnegie Institution; Rev. George Williamson Smith, D.D., LL.D., Past President, Trinity College; Very Rev. Edward A. Page, Ph.D., Professor of Philosophy, and Dean of the School of Philosophy, Catholic University of America. Professor James Macbride Sterrett, A.M., D.D., presiding.

Thesis: The constructive character and function of religion in human progress as illustrated by the religion of Israel. By Rabbi Abram Simon, 1894, Cincinnati Hebrew Union College; B.L., 1894, University of Cincinnati. Before Rev. George M. Sauvage, C.S.C., S.T.D., Professor of Dogma and Church History, Holy Cross College, Catholic University of America; Rev. Frank Sewall, S.T.D.; Rev. James S. Lemon, Ph.D. Professor George Lansing Raymond, L.H.D., presiding.

Thesis: Contributions to the knowledge of tellurium. By Walter Otheman Snelling, B.S. in Chemistry, 1904, Columbian University; B.S. in General Science, 1905, Harvard University; M.S., 1906, Yale University. Before William A. Noyes, Ph.D., Chief Chemist U.S. Bureau of Standards; Allerton S. Cushman, Ph.D., Assistant Director and Chemist, Office of Public Roads, U. S. Department of Agriculture; Eugene T. Allen, Ph.D., Chemist Geophysical Laboratory, Carnegie Institution. Professor William L. Hillebrand, Ph.D., Phar.D., presiding.

A midwinter Doctorate Disputation was held publicly in University Hall, Monday, February 3, 1908, as follows:

Thesis: The mosquitoes of the Philippine Islands. The distribution of certain species and their occurrence in relation to the incidence of certain diseases. By Clara Southmayd Ludlow, B.S., 1900; M.S., 1901, A. and M. College, Mississippi. Before Professor George M. Kober, M.D., Dean Medical Department, Georgetown University; Major Walter D. McCaw, M.D., Surgeon U. S. Army; Instructor in Tropical Medicine, Army Medical School; Charles Wardell Stiles, Ph.D., Zoologist U. S. Public Health and Marine Hospital Service. Professor George M. Sternberg, M.D., LL.D., Brigadier-General U. S. Army (retired), presiding.

THE FACULTY OF UNDERGRADUATE STUDIES.

CHARLES WILLIS NEEDHAM, LL.D.....President of the University
JAMES HOWARD GORE, Ph.D.....Professor of Mathematics
HOWARD LINCOLN HODGKINS, Ph.D.....Dean of Washington College of Engineering and Professor of Physics
HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German
JAMES MACBRIDE STERRETT, A.M., D.D.....Professor of Philosophy
CHARLES EDWARD MUNROE, Ph.D.....Dean of the Faculty of Graduate Studies and Professor of Chemistry
GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy
WILLIAM ALLEN WILBUR, A.M.....Dean of Columbian College and Professor of English
CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History
MITCHELL CARROLL, Ph.D.....Professor of Classical Languages
PAUL BARTSCH, Ph.D.....Professor of Zoölogy
GEORGE N. HENNING, A.M.....Professor of Romance Languages
PERCY ASH, C.E.....Professor of Architecture, in Charge of Division of Architecture
C. WILLIAM A. VEDITZ, Ph.D., LL.B.....Professor of Economics and Acting Dean of the College of the Political Sciences
GEORGE LANSING RAYMOND, L.H.D.....Professor of Æsthetics
ALBERT BURNLEY BIBB.....Professor of Architecture
WILLISTON S. HOUGH, Ph.M....Professor of Psychology and Education in Charge of the Division of Education
FRANK LEIGHTON DAY, Ph.D.....Professor of Semitic Languages
ALBERT MANN, Ph.D.....Professor of Botany
HARRIETT STRATTON ELLIS, A.B.....Dean of Women and Instructor in English
HENRY PARKER WILLIS, Ph.D.....Professor of Finance
W. W. WILLOUGHBY, Ph.D.....Professor of Political Science
CHARLES SIDNEY SMITH, Ph.D.....Professor of Greek and Latin
C. DWIGHT MARSH, Ph.D.....Professor of Zoölogy
NEVIL MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry
PHILANDER BETTS, E.E...Assistant Professor of Electrical Engineering
EDWIN A. HILL, Ph.D.....Assistant Professor of Chemistry
THOMAS MALCOLM PRICE, Ph.D.....Assistant Professor of Chemistry
RAY SMITH BASSLER, Ph.D.....Assistant Professor of Geology
PAUL N. PECK, A.M.....Assistant Professor of Mathematics
DE WITT C. CROISSANT, A.B.....Assistant Professor of English
ALFRED F. W. SCHMIDT, A.M.....Assistant Professor of German
EDWIN V. DUNSTAN, C.E....Assistant Professor of Civil Engineering
OSCAR A. MECHLIN, C.E.....Assistant Professor of Civil Engineering
ARTHUR CUTTS WILLARD, B.S.....Assistant Professor of Mechanical Engineering

WILLIAM RAY MANNING, Ph.D.....Assistant Professor of Diplomatic History
WILLIAM CARL RUEDIGER, Ph.D....Assistant Professor of Educational Psychology
CHARLES MASON REMEY.....Assistant Professor of Architecture
JAMES FREDERICK PEAKE, A.M.....Assistant Professor of History
OTIS D. SWETT, B.S., LL.M.....Instructor in Chemistry
GEORGE ALBERT ROSS, M.S.....Instructor in Mathematics
EVERETT W. VARNEY, A.B.....Instructor in Physics
HENRI BAULIG, Lic. ès lettres.....Instructor in Romance Languages
WALTER FISCHER, A.M.....Instructor in Botany
HOWARD LEE MCBAIN, Ph.D.....Instructor in Political Science
JULIAN C. SMALLWOOD, M.E.....Instructor in Mechanical Engineering
F. CHARLES STARR, B.S.....Instructor in Civil Engineering
CHARLES W. MORTIMER, B.S.....Instructor in Electrical Engineering
WILLIAM B. SCHULZ, B.A.....Instructor in German
ELLERY C. STOWELL, A.B., LL.B.....Instructor in International Law
HARRY S. MICHIE.....Director of Arts and Crafts School and Instructor in Applied Design
GEORGE MORTON CHURCHILL, A.M.....Instructor in History
EDWARD ELLIOT RICHARDSON, M.D., Ph.D.....Instructor in Philosophy
BENJAMIN MATHER WOODBRIDGE, B.A.....Instructor in Romance Languages

ADMINISTRATIVE COUNCILS.

Columbian College.

Dean WILBUR, Professors GORE, STERRETT, MUNROE, CARROLL, HENNING, DAY, Assistant Professors SCHMIDT and PEAKE.

Washington College of Engineering.

Dean HODGKINS, Professors SCHOENFELD, MERRILL, Assistant Professors BETTS, PECK, DUNSTAN, MECHLIN, WILLARD.

Division of Architecture.

Professor ASH in Charge of the Division, Professors RAYMOND, BIBB, Assistant Professor REMEY.

College of the Political Sciences.

Acting Dean VEDITZ, Professors SWISHER, LORENZEN, SCOTT, WILLOUGHBY, WILLIS, Assistant Professor MANNING, and Dr. MCBAIN.

Division of Education.

Professor HOUGH in Charge of the Division, Professors BARTSCH, SMITH, FRANZ, Assistant Professors CROISSANT, RUEDIGER, and Dr. MYERS.

COLUMBIAN COLLEGE.

The session of 1908-1909 begins Wednesday, September 30, 1908.

Columbian College is open to men and women. The courses of study are conducted mainly in the University Building, corner Fifteenth and H streets, N. W. The office of the Dean of Columbian College is in this building.

The Woman's Building, within four minutes' walk, is situated at 1538 I street.

ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring coöperation with the University, that present evidence of affording adequate preparation in the required subjects. The Registrar of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board will be accepted in so far as the subjects specified meet the requirements for admission.

The requirement for admission is a four-year high school course, or its equivalent, amounting to fifteen "units." A unit is a subject studied one school-year of five periods a week. Seventy-five such periods or "counts" make the fifteen-unit requirement.

These fifteen units must include English, 3 units; Mathematics, 2 units; and one of the following languages: Latin, 4 units; Greek, 3 units; French, 2 units; German, 2 units; or Spanish, 2 units. The remainder of the requirement is elective and may be satisfied in general by any high-school subject approved by the College Entrance Examination Board. Subjects that will be accepted are described in the following pages under "Definition of Requirements."

EXAMINATIONS FOR ADMISSION.

The regular examinations for admission to the Freshman Class is held in University Hall, corner of Fifteenth and H streets, N. W., during the week preceding the Commencement. The following is the schedule for the examination:

May 26, 1907.

Registration of Applicants at the Dean's office	8.30- 9.00
Elementary Latin	9.00-11.00
Plane Geometry	11.00- 1.00
Physics	2.00- 4.00
Greek	2.00- 5.00

May 27.

Elementary Algebra	9.00-11.00
Elementary French	11.00- 1.00
German	2.00- 4.00
Ancient History	4.00- 6.00

May 28.

Plane Trigonometry	9.00-11.00
Advanced French, Advanced German	11.00- 1.00
English	2.00- 5.00

May 29.

Advanced Algebra	9.00-11.00
Solid Geometry	11.00- 1.00
Chemistry; Advanced Latin	2.00- 4.00
English History	4.00- 6.00

Subjects offered for admission, but not named in the schedule of examinations, will be arranged for as occasion arises.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

DEFINITION OF REQUIREMENTS.

ENGLISH.

(Counting three units.)

No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

a. READING AND PRACTICE—one and one-half units. The form of examination will usually be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number—perhaps ten or fifteen—given in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. *In every case knowledge of the*

book will be regarded as less important than the ability to write good English. In preparation for this part of the examination, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates should read the books prescribed for the year in which they propose to present themselves for this part of the examination.

In 1907 and 1908 the books prescribed for this part of the examination are as follows:

Shakespeare's *The Merchant of Venice* and *Macbeth; The Sir Roger de Coverley Papers* in the Spectator; Irving's *Life of Goldsmith;* Coleridge's *The Ancient Mariner;* Scott's *Ivanhoe* and *The Lady of the Lake;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

In 1909, 1910, and 1911 ten books, selected as prescribed below from the following list, are to be offered for examination:

Group I (two to be selected).

Shakespeare's *As You Like It, Henry V, Julius Cæsar, The Merchant of Venice, Twelfth Night.*

Group II (one to be selected).

Bacon's *Essays;* Bunyan's *The Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers* in the Spectator; Franklin's *Autobiography.*

Group III (one to be selected).

Chaucer's *Prologue;* Spenser's *Faerie Queene* (selections); Pope's *The Rape of the Lock;* Goldsmith's *The Deserted Village;* Palgrave's *Golden Treasury (First Series), Books II and III,* with especial attention to Dryden, Collins, Gray, Cowper and Burns.

Group IV (two to be selected).

Goldsmith's *The Vicar of Wakefield;* Scott's *Ivanhoe;* Scott's *Quentin Durward;* Hawthorne's *The House of the Seven Gables;* Thackeray's *Henry Esmond;* Mrs. Gaskell's *Cranford;* Dickens' *A Tale of Two Cities;* George Eliot's *Silas Marner;* Blackmore's *Lorna Doone.*

Group V (two to be selected).

Irving's *Sketch Book;* Lamb's *Essays of Elia;* De Quincey's *Joan of Arc* and *The English Mail Coach;* Carlyle's *Heroes and Hero Worship;* Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies.*

Group VI (two to be selected).

Coleridge's *The Ancient Mariner;* Scott's *The Lady of the Lake;* Byron's *Mazeppa* and *The Prisoner of Chillon;* Palgrave's *Golden Treasury (First Series), Book IV,* with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome;* Poe's *Poems;* Lowell's *The Vision of Sir Launfal;* Arnold's *Sohrab and*

Rustum; Longfellow's *The Courtship of Miles Standish;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning's *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Evelyn Hope, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, The Boy and the Angel, One Word More, Harvé Riel, Pheidippides.*

b. Study and Practice—one and one-half units. This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:

1907, 1908: Shakespeare's *Julius Cæsar;* Milton's *Lycidas, Comus, L'Allegro,* and *Il Penseroso;* Burke's *Speech on Conciliation with America;* Macaulay's *Essay on Addison* and *Life of Johnson.*

1909, 1910, 1911: Shakespeare's *Macbeth;* Milton's *Lycidas, Comus, L'Allegro,* and *Il Penseroso;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

LATIN.

Elementary (counting two units).

a. i. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verbs; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive; so much prosody as relates to accent, versification in general, and dactylic hexameter.

ii. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based upon Cæsar.

b. Cæsar: Any four books of the Gallic War, preferably the first four.

Advanced (counting two units).

a. Cicero: Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

b. Vergil: The first six books of the Æneid.

c. Advanced Prose Composition, consisting of continuous prose of moderate difficulty based on Cicero.

d. Sight Translation, based on prose of no greater difficulty than the easier portions of Cicero's orations.

GREEK.

Elementary (counting two units).

a. i. Greek Grammar: The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.

ii. Greek Prose Composition, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in grammar and prose composition will be based on the first two books of Xenophon's Anabasis.

b. Xenophon: The first four books of the Anabasis.

Advanced (counting one unit).

a. Homer: The first three books of the Iliad (omitting II, 494, to end).

b. Sight Translation, based on prose of no greater difficulty than Xenophon's Anabasis.

FRENCH.

Elementary (counting two units). Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duodecimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two-years' course of five periods per week.

Advanced (counting two units). Candidates in Advanced French must have partly translated, partly read, in addition to the requirements for Elementary French, at least 1,000 pages of difficult French of several different authors, including history, fiction, drama, and poetry. Candidates must have had a four-years' course of five periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

SPANISH.

(Counting two units.)

Candidates in Spanish must have a good knowledge of grammar, including syntax, with stress on pronouns and verbs, regular and irregular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two-years' course of five periods per week.

GERMAN.

Elementary (counting two units). Candidates in Elementary German must have had a two-years' course of five periods a week. They must be able to read fluently at sight and to translate easy narrative prose and poetry. An accurate knowledge of an elementary German grammar is requisite, to be tested by the translation into German of some fifteen sentences. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.

Advanced (counting two units). Candidates in Advanced German must have had a four-years' course of five periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association. and poetry, especially dramas by Lessing, Schiller, and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

HISTORY.

In this subject special importance is attached to preparation in geography.

Ancient (counting one unit).

a. Greek History, through the Roman Conquest; as much as is contained in Myer's History of Greece.

b. Roman History; as much as is contained in Allen's History of the Roman People.

Mediæval and Modern European History (counting one unit). As much as is contained in Myer's History of Mediæval and Modern Europe.

English History (counting one unit). As much as is contained in Larned's History of England.

American History with the Elements of Civil Government (counting one unit). As much as is contained in Fiske's History of the United States, and Fiske's Civil Government.

MATHEMATICS.

Elementary Algebra (counting one unit).

i. Algebra to Quadratics:

The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

ii. Quadratics, etc.:

Quadratic equations and equations containing one or more unknown quantites that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive integral exponents.

Advanced Algebra (counting one-half unit).

i. Progressions, etc.:

The progressions, the elementary treatment of permutations and combinations, and the use of four and five place tables and logarithms.

ii. Series, etc.:

Undetermined coefficients, the elementary treatment of infinite series, the binomial theorem for fractional and negative exponents, and the theory of logarithms.

iii. Theory of equations.

Determinants and the elements of the theory of equations, including Horner's method for solving numerical equations.

Plane Geometry (counting one unit).

General text propositions, including the solution of simple original exercises and numerical problems.

Solid Geometry (counting one-half unit).

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres, of spherical triangles, and the measurement of surfaces and solids.

Plane Trigonometry (counting one-half unit).

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulæ, theory of logarithms and use of tables, solution of right and oblique plane triangles.

PHYSICS.

(Counting one unit.)

It is recommended that the candidate's preparation should include:

a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.

b. Instruction by lecture-table demonstrations.

c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

The laboratory note book must be submitted for inspection, whether the candidate is admitted on certificate or by examination.

CHEMISTRY.

(Counting one unit.)

The candidate's preparation in chemistry should include:

a. Individual laboratory work, comprising at least forty experiments of a character analogous to those set forth by the College Entrance Examination Board.

On application for admission to this University, every candidate seeking credit in chemistry must present an indexed note book in which he has recorded the steps and the results of his laboratory exercises, bearing an endorsement of the teacher who directed the student, written in ink on the inside of the cover.

b. Instruction by lecture-table demonstrations to be used in instructing the student as to methods of manipulation and as a basis for questioning him upon the general principles involved in his laboratory experiments.

c. The study of at least one modern text-book, to the end that the student may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

Requirements. The ground to be covered should include the following: The chief physical and chemical characteristics, the isolation and the recognition of the following elements and the preparation and study of their principal compounds: *Oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur,* phosphorus, silicon, potassium, *sodium,* calcium, magnesium, *zinc,* copper, mercury, silver, aluminum, *lead,* tin, *iron,* manganese, chromium.

The more detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds, such as water, hydrochloric acid, carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen sulphide, sodium hydroxide, ammonium hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life) flame, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and on Boyle's and Charles' laws, symbols, formulas, equations and nomenclature, atomic theory, atomic weights, nascent state, natural groupings of the elements solution (solvents and solubility of gases, liquids, and solids), strength of acids and bases, conservation and dissipation of energy, chemical energy and electrolysis, and of valence, electrolytic dissociation, osmosis, mass action in a very elementary way. Chemical terms should be clearly understood, and the student should be able to illustrate and apply the ideas that they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts. The facts should be given as examples from various classes and not as isolated things.

BOTANY.

(Counting one unit.)

Candidates must have had at least one year's full work in botany, comprising the general principles of morphology, physiology, and ecology, as well as the natural history of plant groups and classification. Bergen's Foundations of Botany and Atkinson's Elementary Botany indicate the general scope of the work required.

ZOÖLOGY.

(Counting one unit.)

In general, zoölogy is not recommended as an entrance subject unless the subject has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, his knowledge of the more essential facts of physiology.

Practical Zoölogy. A practical examination of at least ten common animal types, and the presentation by the candidate of a laboratory note book, certified by the teacher, as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk,

insects, crustaceans, annelid, starfish, hydroid (hydra), and protozoan. In the examination less weight is laid on a knowledge of anatomical *minutiæ* than on the ability to recognize the specimen and its allies, to indicate its relationship, and to point out the leading features of its life history, organization, and physiology.

Elementary Physiology. The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion and respiration; the motor, nervous, and sensory functions, and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work, but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course of practical zoölogy.

PHYSIOGRAPHY.

(Counting one unit.)

The equivalent of Davis' Physical Geography is required, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.

The candidate will be required to present at the time of his examination the original note book in which he recorded, with dates, the steps and results of his laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

DRAWING.

(Counting one unit.)

The candidate's preparation in drawing should include simple geometrical plane, and solid figures and simple pieces of machinery, with a fair knowledge of the rules of perspective and light and shade as applied in freehand sketching. The candidate should be able to reproduce from a flat copy with enlargement or reduction of size.

For courses in architecture, the preparation should include, in addition to the above, the drawing of simple pieces of architectural ornament (a Greek anthemium, a design of iron scrollwork, etc.).

For courses in engineering the preparation should include the copying of machinery details.

For courses in general science or in science for teachers, the preparation should include the copying of still life and simple plant forms.

SHOPWORK.

Candidates who have been trained in manual-training schools or in commercial shops in the use of tools and in the ordinary processes em-

ployed in the working of wood or metal may receive admission credits for such work. They should submit letters from their teachers or employers, stating the character of the work in which they have been trained and the time given to it. The amount of credit will vary according to circumstances, but it will not exceed two units.

COMMERCIAL GEOGRAPHY.

A course in Commercial Geography covering the ground represented by Redway's or C. C. Adams' Commercial Geography, or a course in Political Geography may be offered, provided it be distinct from courses in history, civil government, or physiography. The amount of credit for this course will not exceed one unit.

POLITICAL ECONOMY.

A course in Political Economy based on the contents of Ely and Wicker's text-book, or upon a similar text, will count to the extent of one unit; while a course based on Bullock's Introduction to the Study of Economics or a work of similar scope may be counted to the extent of two units.

ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

REQUIREMENTS FOR DEGREES.

The undergraduate degrees offered by Columbian College are Bachelor of Arts and Bachelor of Science in Chemistry. To be recommended for either of these degrees, the student must be registered for at least one academic year, must satisfy the admission requirements, and must complete at least sixty "hours" of undergraduate courses. An "hour" is one period a week for one academic year.

The studies to be taken by a student during his college course, while largely elective, should be chosen with careful attention to their relation to each other and to his aims and purposes for the future. In general, the courses to be taken during the early years are those given

under the first section in University Subjects, while courses under the second section are elected during the latter part of the course. No time limit is prescribed and the degree is given when the total of prescribed and elective courses is completed.

One grade of special distinction is recognized in awarding the bachelor's degree. It is shown by inserting the words "With Distinction" on the diploma after the name of the degree. It is awarded under the following conditions:

"That the names of all students who have received a mark of at least B (90 per cent) on courses representing at least sixty (60 per cent) of all hours taken by them be submitted by the Dean to the Faculty of the Department in which the students shall be studying for a degree, after the completion of all final examinations in such students' final year of study for their degree;

That the faculty, after separate consideration of each individual case, shall, if it see fit, recommend the awarding of the degree "With Distinction" to students who shall have fulfilled the conditions above specified."

BACHELOR OF ARTS COURSE.

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study aggregating at least sixty "hours." This "hour" of credit is one hour of recitation or lecture work a week or one laboratory period a week for one academic year. The prescribed studies are as follows:

English, 3 hours; Mathematics, 3 hours; and one of the following languages: Latin, Greek, French, German, or Spanish, 3 hours. The remainder of the sixty-hour requirement is elective.

BACHELOR OF SCIENCE IN CHEMISTRY.

Freshman Year.

	Hours.		Hours.
Chemistry, 1, 2	5	French or German	3
English, 1 or 2	3	Graphics, 1	2
Mathematics, 3, 5, 7, or 6, 8, 10.	3		

Sophomore Year.

Chemistry, 3, 20	5	Mathematics, 9, 11, or 12, 14	3
French or German	3	Physics, 1, 2	5

Junior Year.

Architecture, 1	1	Graphics, 2	2
Chemistry, 4, 21, 23	6	Geology, 1	2
French or German	3		

Senior Year.

Hours.		Hours.
Chemistry, 6, 24, 25, 27..... 11	Geology, 2	2
Economics or History 2	Electives	2

COMBINED COURSES.

The regular courses in Columbian College are so correlated with the courses in Law and in Medicine that both the Bachelor's degree in the college and the professional degree may be obtained in a period of six years.

PRIZES.

Only candidates for degrees may compete for these prizes.

Staughton and Elton Prizes.—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

Ruggles Prizes.—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

Munroe Prize.—Profesor Munroe offers a gold medal to that student from any Washington high school or the Manual Training School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance for one year.

Class of '96 James Macbride Sterrett, Jr., Memorial Medal.—This prize is annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

Davis Prizes.—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Only members of the Senior Class are eligible to compete for these prizes.

Daughters of the American Revolution Prizes.—These prizes, founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in Mediæval, Modern, European, English, and American History during three years, shall produce the best essays upon an assigned topic of American history.

THE THOMAS F. WALSH PRIZE.—This prize established by Thomas F. Walsh, Esq., of Colorado, and based upon the income of one thousand dollars, consists of a gold medal awarded annually to that student of the graduating class, who having maintained a high standard in the regular classes of Mediæval, Modern European, English and American History, shall produce the best essay upon a designated period of the History of Ireland.

E. K. CUTTER PRIZE.—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

WILLIE E. FITCH PRIZE.—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually for the best examination in Chemistry.

OLD AND MIDDLE ENGLISH PRIZE.—This is a prize of twenty-five dollars awarded to the student showing the greatest proficiency in English 21 and 30.

FRENCH COMPOSITION PRIZE.—A friend of the University offers for the year 1907-08 a first prize of ten dollars worth of books, and a second prize of five dollars worth of books, for excellence in French composition, the competition to be open to students of French 3 and French 4.

THE GARDINER G. HUBBARD MEMORIAL PRIZE.—This is a prize in American History established by Mrs. Gertrude M. Hubbard, in memory of her husband, the late Gardiner G. Hubbard. The endowment is a fund of one thousand dollars, the income from which is to be given annually to that student of the graduating class, who has during four years maintained a high standing in the classes of American History, and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

PRIZE AWARDS, 1906-07.

Staughton Prize ..... H. F. Arthur Schoenfeld
Elton Prize ..... Mary Simpson Birch
Davis Prizes ..... First Prize: Mabel Lavinia Scott
Second Prize: Isabel Rhoda Capell
Third Prize: Robson De S. Brown
Daughters of the American Revolution Prizes ..... Edith Heiskell Ridout
Ernest Frederick Mechlin

Thomas F. Walsh Prize.....Isabel Rhoda Capell
E. K. Cutter Prize.....Edith Heiskell Ridout
Willie E. Fitch Prize.....Clarence Paret Wilson
Old and Middle English Prize.....Catherine Agatha McAvoy

SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term or whose deportment is unsatisfactory will be reported to the President's Council, and in the absence of extenuating circumstances the scholarship will be revoked.

KENDALL SCHOLARSHIP.—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that student from any of the Washington High Schools or from the Manual Training School who attains the highest average in the May entrance examinations. This scholarship continues throughout the undergraduate course, and the student holding it pays only the matriculation, library, laboratory, and graduation fees.

UNIVERSITY SCHOLARSHIPS.—The University offers also six scholarships, each continuing throughout the undergraduate course, to be awarded annually to members of the graduating classes of the high schools of Washington and of the Manual Training School. The scholarships will be divided among the several schools in proportion to the number of students in attendance upon each. Three scholarships are offered to young men and three to young women. No scholarship will be awarded to a candidate whose examination average is below 80 per cent. Candidates for these scholarships will take the May entrance examinations for the undergraduate course leading to the degree of Bachelor of Arts or the degree of Bachelor of Science, as they shall elect, and on the results of these examinations the scholarships will be assigned. Holders of these scholarships will be expected to pursue a regular course in the Department of Arts and Sciences leading to a degree. Such students will pay only the matriculation, library, laboratory, and graduation fees.

DAVIS SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

MARY LOWELL STONE SCHOLARSHIP.—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund

of two thousand dollars, the income from which is to be paid to needy women students of science in the University; it will be awarded by the President's Council.

MARIA M. CARTER SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

FARNHAM SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

ADMIRAL POWELL SCHOLARSHIPS.—The Admiral Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for the "free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer Department of the Navy, or to those who desire to fit for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	Hours.
Navigation and Nautical Astronomy	6
Algebra and Geometry	3
Trigonometry	1½
Mechanical and Machine Drawing	4
Meteorology	2
English	3
French	3
German	3
Spanish	3

	Hours.
International Law	1
Commercial Geography	1
Admiralty Law	½
Boilers and Power Plants	3
Measurement of Power	3
Dynamo theory	2
Dynamo testing	3

DAVIS PRIZE SPEAKING.

The Davis Prize Speaking is held in University Hall on the Tuesday after the Easter holidays. The Davis Prizes were founded by Hon. Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of $5, of $10, and of $15 annually—these premiums or prizes to be distributed annually to such members of the Senior Class as shall have made the greatest progress in elocution since their connection with the College."

The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to the Dean of the College not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, selected by the Administration Council of the College.

ENOSINIAN SOCIETY.

The Enosinian Society, a literary association formed by the students of Columbian College, to which any University student is eligible, meets regularly for the purpose of improvement in debate and composition.

This society had its beginning March 6, 1822, during the first session of Columbian College, when a number of students held a meeting "for the purpose of establishing a debating society." Two Enosinian prizes are given annually and are publicly presented at the Commencement. They are the following:

Debaters' Prize.—A gold medal given by the Society for proficiency in debate. This prize was awarded in 1907 to Robson De S. Brown.

Gore Prize in Parliamentary Law.—A gold medal given by Prof. James Howard Gore for proficiency in parliamentary law. This prize was awarded in 1907 to Edward Percy Gates.

WOMAN'S BUILDING.

A Woman's Building was opened by the University in September, 1907. This is situated near the University Building, at 1538 I street. The lower floors contain lecture rooms, recitation, committee, and dining-rooms. The upper floors are a college dormitory for women, and college girls may obtain board and rooms at reasonable rates. The Woman's Building is the social centre for the young women of the College. The Dean of Women has an apartment and office in the building and will supervise the appointments of the house and the social activities of the women students.

LUTHER RICE MISSION STUDIES.

Luther Rice founded Columbian College in 1821 with a missionary motive and a purpose to "diffuse knowledge both literary and religious through these United States." In remembrance of this motive and in coöperation with the various interdenominational missionary movements, Columbian College instituted during the winter of 1907-08 four University Extension Courses in the study of Christian missons. These courses were planned to help leaders of classes in the churches and all students of missions. All of the courses were without fee and were open to men and women. One hundred and forty-four cards of enrollment were issued. The following courses were given, all of them by members of the Faculty:

"Aliens or Americans," one hour a week for eight weeks, by Professor DAY.

"The Challenge of the City," one hour a week for eight weeks, by Professor VEDITZ.

"Gloria Christi—An Outline Study of Missions and Social Progress," one hour a week for six weeks, by Miss ELLIS.

"The Uplift of China," one hour a week for eight weeks, by Professor WILBUR.

The Luther Rice Mission Studies for 1908-09 will be given in the late fall in order that they may serve those who plan to organize local circles during the winter. They will be without fee. Special announcements will be made in the fall.

The following courses will be organized:

"The Foreign Missionary Enterprise": text-book by Dr. A. J. Brown, conducted by Professor SMITH.

"Islam": text-book by Dr. S. M. Zwemer, conducted by Assistant Professor MANNING.

"Nearer and Farther East": text-book by Dr. S. M. Zwemer and Dr. A. J. Brown, conducted by Miss ELLIS.

"The Frontier": text-book by Dr. E. T. Tomlinson, conducted by Professor WILBUR.

THE CHRISTIAN ASSOCIATION.

The student movement in Association work is represented by the Young Men's Christian Association of The George Washington University, which was organized in the fall of 1905. The Association plans and conducts religious work among the men of the University. The Association calendar includes Bible study clubs, a weekly chapel service, and occasional men's meetings.

Similar lines of religious work are conducted among the women students by the Young Women's Christian Association of Columbian College.

THE COLLEGE CHAPEL.

Two chapel services, one in West Hall in the University Building and one in the Woman's Building, are held on Monday, Tuesday, Thursday and Friday throughout the academic year. These chapel services are conducted by the Faculty on Monday, Tuesday and Thursday; the Friday services are in charge of the Christian Association. All students are invited to help sustain these services. On Wednesdays at 12 o'clock all College students participate in the University Assembly, which is held in University Hall. Official announcements are made regularly at the Assembly and Professors and students are expected to be governed by them.

The Dean of the College will confer with students as they may desire on questions concerning their welfare and will cooperate with them in all ways to make the college life one of personal helpfulness.

WASHINGTON COLLEGE OF ENGINEERING.

The session of 1908-9 begins Wednesday, September 30, 1908.

Two houses, 1528 and 1530 I street, have been remodeled for use of the College of Engineering, and contain class-rooms, drawing-rooms, library and reading-room, cement laboratory and offices of members of the Faculty.

The Chemical, Physical, Electrical and Mechanical laboratories are in the main building of the University, corner of Fifteenth and H streets, N. W.

The office of the Dean is at 1528 I street.

ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring coöperation with the University, that present evidence of affording adequate preparation in the required subjects. The Registrar of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board will be accepted in so far as the subjects specified meet the requirements for admission.

The certificate of the Washington high schools covering all the requirements for admission admits students without examination to the courses of the Freshman year.

The certificates of all schools accredited to the University will be accepted in so far as they meet the requirements for admission.

The general requirement for admission is a four-year high school course, or its equivalent, consisting of five recitations per week in four or more topics. The high school studies which may be presented in satisfaction of the requirements of admission are given on pp. 35-44 of this Catalogue.

Candidates for admission to the Freshman Class in the College of Engineering are required to present fifteen units for admission, distributed as follows:

	Units.
English	3
French or German	4
Plane and Solid Geometry	1½
Elementary and Advanced Algebra	1½
Plane Trigonometry	½
Chemistry	1
Physics	1
Electives	2½
	15

NOTE.—The modern language requirement may be satisfied by presenting four units in one language, or two units in French and two units in German. Students who present four units in one language will study the other language two years in College. Students who present two units in French and two units in German will study each language one year in College.

ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

COURSES FOR A DEGREE.

Three courses of study are offered:

I. CIVIL ENGINEERING.

II. ELECTRICAL ENGINEERING.

III. MECHANICAL ENGINEERING.

These courses occupy four years each, and lead to the degree of Bachelor of Science in Civil Engineering, in Electrical Engineering, and in Mechanical Engineering, respectively. Graduate courses of one year under the Faculty of Graduate Studies of the George Washington University are open to those who receive the above degrees, and lead,

respectively, to the degrees of Civil Engineer, Electrical Engineer, and Mechanical Engineer.

The courses in engineering are planned to give the student a thorough understanding of the theory underlying engineering practice, and such a practical knowledge of the instruments and methods of his particular profession as will enable him to apply the theory properly. In all the courses a thorough training in mathematics, pure and applied, and in drawing and descriptive geometry is required as the basis of the analytical and graphical study of engineering topics. Much stress is laid on the work in the drawing-room and laboratory. The work is planned to give him a thorough knowledge of principles upon which he may build, and by which he may be able to solve the new problems he meets in practice.

The work of the first year is the same for all students. It is taken up partly with general studies which have both an educational and a cultural value, and partly with work in mathematics and drawing which lays the foundations for the subsequent courses. In each of the other years there are studies taken in common by all engineering students, these studies including courses in English, in French and German, in pure and applied mathematics, in drawing and descriptive geometry, in chemistry and in physics. The requirement in French and German is intended to give the student an accurate reading knowledge of these languages, with particular reference to scientific literature.

Beginning with the Sophomore year, the Civil Engineering student enters upon his technical studies, continuing at the same time a number of topics of a more general character, and in the Junior and Senior years the work becomes yet more specialized. He begins with a general course in surveying and follows this with courses in railroad and highway location and construction. Theoretical hydraulics and hydraulic engineering receive careful and detailed treatment and much stress is laid on sanitary work, both in its theory and applications. A preliminary course in engineering materials and simple constructions in the Sophomore year is followed in later years by extended courses in mechanics of materials, and in the theory and design of structures in wood, steel, and masonry, in which are applied the knowledge gained in the courses in mechanics and graphic statics.

The courses for Electrical and Mechanical Engineering students are the same during the Sophomore year, and beside the general studies required of all engineering students include courses in advanced drawing and design and in kinematics of machinery. Shopwork begins in this year and continues until the end of the course for both classes of students, although the Electrical students give less time to it than do the Mechanical students. The purpose of the work is not primarily to give manual skill, but to give such an understanding of tools and pro-

cesses as will be of assistance in designing and in superintending. In the Junior Year Electrical and Mechanical students continue work in machine design, and take courses in steam engineering and on boilers and power plants.

The Electrical students begin their special work in electricity in the Junior year. Theoretical electricity is first studied, and is followed by engineering electricity, and by courses on direct current machinery. In the laboratory, experimental work in exact measurements is followed by the study of the dynamo. In the drawing-room are studied related problems in design. In the Senior year alternating current machinery is studied, both theoretically and practically; and courses on the applications of electricity and on light and power distribution are taken. Many hours are given to work in the electrical and general engineering laboratories.

The Mechanical Engineering students, in addition to the courses which they take in common with the electrical students, have courses in engine design, including steam and gas engines; in hydraulics and hydraulic machinery; and a course in electrical engineering, considering electrical machinery from the standpoint of one who is to use it rather than to design it.

The engineering courses are partly lecture and partly laboratory and drawing-room courses, the plan being to give the theory in the classroom, to illustrate the theory in the laboratory, and to have the student apply the theory, from given data, in the drawing-room.

REQUIREMENTS FOR A DEGREE.

The arrangement of the topics in each of the regular courses for a degree is shown below. The numbers following the names of subjects refer to the courses as given in the list of University Subjects on pages 77-126, to which reference should be made for more complete description.

COMMON TO ALL COURSES.

Freshman Year.

Chemistry, 1, 7.
General Chemistry and Qualitative Analysis.
English, 1 or 2.
Rhetoric.
French or German.
Graphics, 1.
Mechanical and Freehand Drawing.
Mathematics, 9, 11 or 12, 14.
Trigonometry; Analytic Geometry.

CIVIL ENGINEERING COURSE.

Sophomore Year.

Civil Engineering, 1, 4.
Surveying; Materials of Construction.
French or German.
Graphics, 8, 10.
Descriptive Geometry; Topographic Drawing.
Mathematics, 20, 22 or 21, 22.
Calculus; Differential Equations.
Physics, 1, 2.
General Physics; Laboratory Physics.

Junior Year.

Applied Mathematics, 20, 21, 22.
Mechanics; Hydraulics; Mechanics of Materials.
Astronomy, 1.
Civil Engineering, 2, 3, 7, 22.
Railroad Engineering; Highway Engineering; Engineering Testing; Theory of Structures.
Electrical Engineering, 6.
Industrial Engineering.
Geology, 2.

Senior Year.

Chemistry, 6.
Metallurgy.
Civil Engineering, 20, 21, 23, 24.
Masonry; Hydraulic Engineering; Theory of Structures; Sanitary Engineering.
Contracts and Business Law.
Mechanical Engineering, 12.
Steam Engineering.

ELECTRICAL ENGINEERING COURSE.

Sophomore Year.

French or German.
Graphics, 2, 8.
Advanced Mechanical Drawing; Descriptive Geometry.
Mathematics, 20, 22 or 21, 22.
Calculus; Differential Equations.
Mechanical Engineering, 1, 4.
Mechanism; Shop-work.
Physics, 1, 2.
General Physics; Laboratory Physics.

Junior Year.

Applied Mathematics, 20, 21, 22.
Mechanics; Hydraulics; Mechanics of Materials.
Electrical Engineering, 1, 2, 3, 4, 5, 8.
Elementary Electricity; Direct Current Machinery; Electrical Engineering; Electrical Measurements; Electrical Engineering Laboratory; Electrical Design.
Mechanical Engineering, 5, 20.
Metal-work; Steam Engineering.

Senior Year.

Chemistry, 6.
Metallury.
Civil Engineering, 5, 6.
Surveying Instruments; Foundations.
Contracts and Business Law.
Electrical Engineering, 21, 22, 23, 24, 26, 27.
Alternating Currents; Electrical Distribution; Electrical Applications; Electrical Engineering Laboratory; Electric Lighting; Electric Railways.
Mechanical Engineering, 10, 23.
Engineering Laboratory; Hydraulic Machinery.

MECHANICAL ENGINEERING COURSE.

Sophomore Year.

French or German.
Graphics, 2, 8.
Advanced Mechanical Drawing; Descriptive Geometry.
Mathematics, 20, 22 or 21, 22.
Calculus; Differential Equations.
Mechanical Engineering, 1, 4.
Mechanism; Shop-work.
Physics, 1, 2.
General Physics; Laboratory Physics.

Junior Year.

Applied Mathematics, 20, 21, 22.
Mechanics; Hydraulics; Mechanics of Materials.
Civil Engineering, 22.
Theory of Structures.
Mechanical Engineering, 5, 6, 9, 20.
Metal-work; Engineering Drawing; Engineering Laboratory; Steam Engineering.

Senior Year.

Chemistry, 6.
Metallury.
Civil Engineering, 5, 6.
Surveying Instruments; Foundations.
Contracts and Business Law.
Electrical Engineering, 7.
Dynamos and Motors.
Mechanical Engineering, 7, 10, 22, 23, 24, 25, 28.
Machine Design; Engineering Laboratory; Internal Combustion Motors; Hydraulic Machinery; Technical Machinery; Compression and Refrigeration Machinery; Industrial Management.

PRIZES.

Only candidates for degrees may compete for these prizes.

RUGGLES PRIZES.—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

MUNROE PRIZE.—Professor Munroe offers a gold medal to that student from any Washington high school or the Manual Training School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance for one year.

CLASS OF '96 JAMES MACBRIDE STERRETT, JR., MEMORIAL MEDAL.—This prize is annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

DAVIS PRIZES.—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Members of the Senior Class are eligible to compete for these prizes.

SCHMIDT PRIZES.—Mr. Fred. A. Schmidt offers a prize to the student who attains the highest standing in Descriptive Geometry, Trigonometry, and Analytic Geometry.

MUTH PRIZE.—Geo. F. Muth & Co. offer a set of drawing instruments to the student taking Advanced Mechanical Drawing who makes the highest average record in that subject and in the previous year's Mechanical Drawing.

SCHOLARSHIPS.

Application for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarship are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term or whose deportment is unsatisfactory will be reported to the President's Council, and in the absence of extenuating circumstances the scholarships will be revoked.

The Kendall Scholarship, the University Scholarships, and the Admiral Powell Scholarships are open to students in the College of Engineering. Detailed statements in regard to these scholarships are given on pages 47-49.

Henry Harding Carter Scholarships.—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consist of four scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

DIVISION OF ARCHITECTURE.

ADMISSION.

Each applicant for admission is required to present a testimonial of good moral character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required books and subjects.

The general requirement for admission is a four-year high school course, or its equivalent, consisting usually of four or five recitations per week in four or more topics.

Candidates for admission to the course leading to the degree of Bachelor of Science are required to present subjects from the list of high school studies aggregating fifteen units, distributed as follows:

	Units.
English	4
French or German	2
Elementary Algebra	1
Plane Geometry	1
Physics	1
Chemistry	1
Electives	5
	15

The list of high school studies and the definition of requirements in all preparatory subjects are given on pp. 35-44 of this catalogue.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ARCHITECTURE.

To be recommended for the degree of Bachelor of Science in Architecture the student must be registered in the Division of Architecture for at least one academic year, he must satisfy the admission requirements, and must complete the prescribed course for the degree. This is a four-year course. General culture studies are pursued through the first two years, about half of the time being devoted to them. The rest of the course is devoted to architectural work. The unit of credit is one hour of recitation or lecture per week throughout the academic year. Laboratory hours count one-fourth unit each.

First Year.

	Units.
English	3
French, Italian, or German	3
Science	3
Architectural Drawing (3)	3
Shades, Shadows, and Perspectives (4)	2
Freehand Drawing (2)	1
	15

Second Year.

English	3
French, Italian, or German	3
Science	2
Rendering, Design (3)	3
Freehand Drawing (6)	2
History of Architecture (20)	2
	15

Third Year.

Mechanics of Material (First term) Graphic Statics (Second term)	3
Building Construction (21)	2
History of Architecture (32)	2
Pen and Ink Rendering (27)	1
Design and Sketch Design (25)	4
Drawing from the Antique (26)	1
Water Colors (34)	2
	15

Fourth Year.

Design and Sketch Design—Thesis (27)	5
Classical Archæology (30)	2
History of Painting and Sculpture (31)	1
Building Construction (33)	2
Drawing from Life (35)	1
Water Colors (34)	2
History of Architecture (23)	2
Office practice (36)	1
	16

A special course may be arranged for qualified students who wish to take the purely technical work of the Architectural course. Special students to receive a certificate on the satisfactory completion of the course as outlined below.

First Year.

	Units.
Architecture, 3	3
Shades and Shadows, 4	2
Freehand, 2	2
Construction, 21	2
	9

Second Year.

Architecture, 5	3
Construction, 33	2
History (Classical and Mediæval)	2
Freehand, 6	2
Pen and Ink, 27	1
	10

Third Year.

Architecture, 27	5
History (Renaissance), 23	2
History (Painting and Sculpture, or Archæology)	1
Water Colors, 34	2
	10

In addition, before the certificate will be awarded the student must show that he has satisfactorily completed courses 26, 35, and 39.

PRIZES.

The Washington Architectural Club offers membership in the Club as a prize in Architecture. In 1903-04 this prize was awarded to Charles R. Lombard. In 1904-05 to W. H. I. Fleming. In 1905-06 to S. Peter Wagner. In 1906-07 to Reginald W. Geare.

The Architectural League of America offers an annual Traveling Scholarship in Architecture, value $1200 to students and draftsmen in Architecture under 35 years of age. All architectural students in the University, who are members of the George Washington University Architectural Club are eligible to compete for this prize.

The following prizes are open to students taking Beaux Arts problems:

PARIS PRIZE.

This prize, conducted by the Society of Beaux Arts Architects, gives to the winner, by authorization of the French Government, the privilege of following the lectures and of taking part in the competition of the first class in Architecture at the Ecole des Beaux Arts of Paris; he must, however, have already successfully pursued studies corresponding to those prescribed in the second class at that institution, for which condition he will be allowed six months to qualify. The winner, moreover, receives a stipend of two hundred and fifty dollars quarterly during his stay abroad, which should last two and one-half years.

Competitors must be under twenty-seven years of age.

WARREN PRIZE.

This consists of two prizes of fifty dollars and twenty-five dollars respectively for the most successful solution of a problem in planning.

PUPIN PRIZE.

Two prizes of fifty dollars and twenty-five dollars respectively are offered by Prof. Pupin, of Columbia University, for the best designs for the ornamental treatment of some scientific appliance.

COLLEGE OF THE POLITICAL SCIENCES.

GENERAL STATEMENT.

The College of the Political Sciences furnishes systematic and scientific instruction in the various branches of the Political Sciences.

To undergraduate students it gives a broad, general education in the Political Sciences and in social, political, and economic history as a foundation for specialization in certain of the learned professions.

By means of its graduate courses, it gives a comprehensive and highly-specialized training in the Political Sciences, including Government and Administration, International Law and Diplomacy, Economics, Finance, Sociology, and History, based upon the constant observation of facts at the Capital of the Nation and the critical appreciation and comparative study of political and social institutions.

This education is intended to give a training that will fit certain students for Consular and Diplomatic positions and for the public service of the United States, while imparting that general culture and equipment necessary for efficient citizenship and the intelligent grasp of public questions.

In Washington are collected the official records of the Nation's history. Here are accumulated vast stores of information concerning the condition of the country and the problems confronting us as a people. As the Capital of the Nation, Washington furnishes the best, and in many instances the only, opportunity for studying the government in actual operation. Here is the National Congress, engaged in the work of practical legislation. Here sits the Supreme Court which gives to that legislation authoritative interpretation. Here are the great Executive Departments carrying on the business of government and working out the problems of administration. These together with the government of the District of Columbia are constant object lessons in political science. Here is the largest resident diplomatic body to be found anywhere in the world. Here are gathered representatives of the nation and of the press, creating a center of activity in all that appertains to the branches included within the scope of the College. Such an atmosphere for the student of the Political Sciences can be found nowhere else.

Among the additional advantages in these branches may be mentioned the Library of Congress, which contains 1,400,000 volumes and over 300,000 maps, manuscripts, etc., accessible to the students of the University; the Library of the Smithsonian Institution, enriched by its exchanges with all the countries of the civilized world; the Library of the State Department, containing more than 80,000 volumes, including nearly all the important publications relating to International Law,

Diplomacy, and Political History; the Public Library of the District of Columbia, with 90,000 volumes; the United States Bureau of Education, rich in statistical material and foreign exchanges; the excellent working libraries of the Department of Commerce and Labor, the Bureau of Statistics, the Bureau of Trade Relations, the Bureau of American Republics, the Interstate Commerce Commission, the Census Bureau, and the Department of Agriculture.

Of these special facilities, as well as those which Washington enjoys as a center of general culture, the College of the Political Sciences, is planned to take a thorough and systematic advantage. On the Faculty are not only men who are scholars and teachers, but also men whose successful experience in the public service, in journalism, and in the other branches they teach, gives their instruction the greatest practical value.

ADMISSION.

The session of 1908-1909 begins September 30, 1908. The academic year is divided into two parts—the first half-year beginning September 30, and the second half-year, February 1. A student may enter the College at the beginning of either half-year without being delayed in the work requisite for graduation, since a number of courses commence on February 1. Students who enter in February and who take one or more full years to complete the undergraduate course will be graduated at the annual Winter Convocation of the University, on February 22.

Requirements for admission are the completion of two years or its equivalent of satisfactory undergraduate work in any college or university of approved standing. Students who wish to pursue graduate work are required to possess an acceptable Bachelor's degree or its equivalent.

ADMISSION TO SPECIAL COURSES.

All courses of instruction are open to persons of suitable age and attainments who wish to pursue special studies without reference to a degree. Such persons are designated as special students. They are examined in each special study and may receive a certificate for work successfully completed. But no one can be admitted to any course as a special student who does not possess proper preliminary training.

ADMISSION TO ADVANCED STANDING.

Students who have carried on collegiate work in other colleges or universities of approved rank and who have received credit for that work, may be admitted to advanced standing.

THE DEGREE OF BACHELOR OF ARTS.

A total of sixty hours of class-room work (fifteen hours per week for four years) is required in the University for the Bachelor of Arts degree of which thirty hours may be taken in this College.

HIGHER DEGREES.

For the degree of Master of Diplomacy twenty-four hours (twelve hours per week for two years) are required, and the preparation of a dissertation.

Students who have an approved Bachelor's degree may register with the Graduate Faculty of the University, doing a major part of the graduate work in this College, and receive from the University the degree of Master of Arts or Doctor of Philosophy, the former requiring one year of graduate study, and the latter three years.

THESES.

Candidates for either the degree of Master of Diplomacy or Master of Arts must present to the Faculty in charge an acceptable dissertation. Candidates for the degree of Doctor of Philosophy must present an acceptable dissertation showing original research.

Degrees are granted by the University.

SCHOLARSHIPS.

General William F. Draper, of Massachusetts, former Ambassador to Italy, impressed by his long experience in Congress as a member of the Foreign Affairs Committee, and by his service abroad, with the importance of training men for the diplomatic service, has founded a scholarship in the College of the Political Sciences, yielding an annual income of $300. Candidates for this scholarship from Massachusetts or from Virginia will be preferred in the order named, and applications must be filed not later than June 1 with the Director.

Additional scholarships will be founded in the near future, and will be announced in a separate statement.

COURSES OF STUDY.

This College gives four years of instruction in Political Science, International Law and Diplomacy, Economics, Finance, Sociology and History, two years of which are for undergraduate students and two years for graduate students. The subjects taught are grouped under four heads: (1) Political Science, (2) International Law and Diplomacy, (3) Economics and Sociology, (4) History. In each division the courses are classified in two sections, the first containing those of a more elementary character for undergraduates, and the second designed exclusively for graduate students. Lectures begin at 9 a. m.

Section I. Political Science.

1. *Political Theory.*
2. *History of Political Theories and of Political Literature.*
3. *English Constitutional Law in its historical development.*
4. *United States Constitutional Law.*
5. *Constitutional Law of Foreign Countries; comparatively treated.*
6. *Administrative Law, Federal and State.*
7. *Administrative Law of Foreign Countries.*
8. *Federal, State and Local Government in the United States.*
9. *Central and Local Government in Foreign Countries.*
10. *City Government in the United States.*
11. *City Government in Foreign Countries.*
12. *Colonial Government and Administration:*
    a. in the United States;
    b. in foreign countries.
13. *Party Organization and Machinery.*
14. *The Technique of Legislation.*
15. *Elements of Private Law.*
16. *Historical Jurisprudence:*
    a. Historical development of the Roman Law;
    b. Outline of the History of Modern Systems of Law;
    c. History of English Law and its development in the United States and in the English Colonies.
17. *Seminar.*

Section II. International Law and Diplomacy.

1. *International Law:*
    a. Principles of International Law;
    b. Origin and development of International Law with particular reference to writers of authority;
    c. Detailed study of selected topics of International Law:
        1. Nationality;
        2. Extradition;
        3. Conventions governing inland waters and straits;
        4. International Unions;
        5. International Conferences.
    d. *Seminar.*
2. *Diplomacy:*
    a. Diplomatic History of Europe;
    b. Diplomatic History of the United States;
    c. Diplomatic History of Latin America;
    d. Theory and Practice of Diplomacy;

e. Diplomatic Relations of Japan and China with Europe and the United States;
f. *Seminar:* Preparation and discussion of Diplomatic Instruments.

3. *Consuls:*
   a. Consular Rights and Duties;
   b. Origin and Nature of Consular Functions;
   c. Consular System of the United States;
   d. Comparative Study of Modern Consular Systems;
   e. Extraterritorial Jurisdiction of Consuls.
   f. Selected Topics in Consular Jurisdiction.

4. *Practice before the Department of State:*
   a. Preparation and presentation of Claims;
   b. Duty of the Department to consider Claims presented to it;
   c. Nature of control exercised by the Department over claims approved and presented by it to foreign governments;
   d. Distribution of the proceeds by the Department in case of conflict between claimants as to amounts due them;
   e. *Seminar:* Preparation of claims and of the documents submitting claims to foreign governments.

5. *Arbitration:*
   a. History and Theory, Nature and Extent of Jurisdiction;
   b. Practice before Arbitration Tribunals;
   c. Treaties of Arbitration with special reference to the clause *compromisoire.*

Section III. Economics.

1. *Economics:*
   a. Principles of Economics;
   b. Commercial Geography;
   c. Modern Industries;
   d. Business Organization;
   e. Labor Organization;

2. *Commerce:*
   a. Commercial Law;
   b. Transportation;
   c. Inter-State Commerce;
   d. History of Commerce;
   e. Industrial History;
   f. Statistics;
   g. International Trade;
   h. Tariff Policies and Commercial Treaties.

3. *Finance:*
   a. Public Finance;
   b. Taxation;
   c. Money and Banking;
   d. Corporation Finance;
   e. Accounting;
   f. Insurance.
4. *Seminar:* Investigation of important topics in economics.

Section IV. History.

1. *General History of the 19th Century.*
2. *European History:*
   a. Mediæval History;
   b. Constitutional and Political History of the 15th, 16th, and 17th Centuries;
   c. History of the French Revolution and Napoleonic Epoch;
   d. History of European Colonization;
   e. History of Eastern Europe and the Eastern Question;
   f. History of the far East.
3. *American History:*
   a. General History of the United States;
   b. American Colonial History;
   c. American Constitutional History in the formative period, 1775-1801;
   d. American Political History;
   e. History of Slavery and Reconstruction.
4. *History of Spanish America:*
   a. History of Latin America under Spanish rule;
   b. History of Latin America after throwing off European control.
5. *Seminar:* Study and discussion of selected topics.

Modern Languages.

Students of the Political Sciences especially need a thorough knowledge of Modern Languages. Courses in French, Spanish, German, and Italian are offered.

For a detailed statement of courses given in The College of the Political Sciences, see Economics, History, International Law, and Political Science under University Subjects, pp. 77-126, and the special Bulletin of the College of the Political Sciences soon to be published. Inquiries for specific information may be addressed to the Registrar of the University.

DIVISION OF EDUCATION.

GENERAL STATEMENT.

The purpose of the Division of Education is to provide (a) collegiate training for teachers, (b) instruction in education as a department of science.

While research in the field of educational science, and the provision of courses which may be taken mainly for their culture value, are important features of the work of any university department of education, the principal aim of the Division of Education is the practical and professional one of training teachers. In this large field, the Division of Education will restrict itself for the present to the preparation of teachers for the higher grades of instruction and administration. The many excellent normal schools and training colleges are preparing teachers for efficient service in the primary and grade schools; but the need of the broad and substantial training of a college course as a preparation for high-school teaching, and for responsible administrative positions, is now very generally admitted. Until recently, however, it has too often happened that the college graduate who wishes to teach has been without any knowledge of the theory and practice of his vocation. The George Washington University, in common with many leading institutions, has endeavored to remedy this defect in the college training of the teacher by establishing a department for the systematic study of education in all its theoretical and practical aspects.

The aims of the Division of Education may, accordingly, be summarized as follows:

a. To promote the knowledge of educational science.

b. To fit students for the higher positions in the public school service.

c. To secure to teaching the rights and prerogatives of a profession.

d. To aid in raising the standards of educational practice, and so to increase the efficiency of public education.

ORGANIZATION.

With a view to combining to the best advantage a general college education with adequate professional training for teaching, a four years' Teachers Course has been established, leading to a Bachelor of Arts degree and a Teacher's Diploma. This course unites with a thorough preparation in general culture subjects the essential courses in education, and full opportunity to specialize in the branches to be taught. Students who desire to prepare themselves for teaching are advised to enter upon the Teachers Course with their Freshman year, and thus make their college course as a whole conform to that end.

Inasmuch, moreover, as a large number of teachers in service are without college degrees, and a still larger number desire to supplement

their professional training by taking special courses, the courses of instruction have been arranged to meet the needs of two classes of applicants: First, undergraduate students who wish to combine a regular college course with thorough training for the profession of teaching; second, teachers in actual service, and others, who may desire to add to their professional qualifications by taking further special training. For the former, and for teachers who desire to become candidates for a degree, the required courses constituting the prescribed part of the Teachers Course, are given both in the morning and in the late afternoon hours, and are, therefore, easily accessible to both students and teachers. For the latter, provision has been made by offering the greater number of the elective and special courses in the late afternoon, and on Saturday, so that they may be taken by persons engaged in teaching, or in the Departments of Government. Finally, the courses have been placed within the reach of all teachers by offering to those in actual service Scholarships of a value of one-third the regular fees, on conditions named below.

Opportunity is also offered to graduate students to pursue a major or minor in Education, leading to the granting of a Teacher's Diploma in conjunction with a Master's or a Doctor's degree. In this connection attention may be called to the exceptional facilities existing in Washington for graduate study particularly in the history of education in the United States. The extensive collections of the Congressional Library and the library and archives of the United States Bureau of Education furnish unrivalled opportunities in this department.

ADMISSION.

Applicants for admission as regular students, *i. e.*, as candidates for a degree in the Teachers Course, must comply with the same entrance requirements as are prescribed for admission to Columbian College. (See pp. 34 *ff.*) But persons desirous of taking one or more of the professional courses, without becoming candidates for a degree, may be admitted as special students on the presentation of satisfactory evidence that they are qualified to pursue the work to advantage. Students who have begun their college course in another department of the University, and desire to complete it in the Teachers Course, may transfer their registration to the Division of Education, on obtaining the consent of the Deans concerned.

ADMISSION TO ADVANCED STANDING.

Students who have pursued courses of study in other colleges or universities of approved rank will receive advanced credit for such work on the presentation of certificates.

Graduates of approved Normal Schools, Training Colleges, or Technical Schools, and teachers of experience who have studied privately, will be admitted to such advanced standing as the courses they have pursued warrant.

THE TEACHERS COURSE.

The Teachers Course is a four years' course comprising the following educational divisions, the two first made up of prescribed studies, the third of electives:

a. A foundation of fifteen units of general culture studies, prescribed in accordance with the view that a teacher's preparatory training should omit no one of the principal elements of culture.

b. A minimum of nine units of professional training courses.

c. Thirty-six elective units of special information courses and further training courses.

In recognition of the professional training and of the completion of twenty-four instead of nine prescribed units of study, graduates from the Teachers Course will receive, in addition to the Bachelor of Arts degree, a Teacher's Diploma.

A "unit" of study represents one hour of recitation or lecture work per week for one academic year, or its equivalent.

GRADUATION.

To be recommended for a Bachelor of Arts degree and a Teacher's Diploma, the student must complete courses of study aggregating at least sixty units. Twenty-four of these units are prescribed studies and thirty-six are electives. The prescribed studies are the following:

	Units.
A. In general culture subjects:	
English	3
Science or Mathematics	3
French, German, Latin, or Greek	3
History	3
Psychology	3
B. In professional subjects:	
History of Education	2
Principles of Education / Educational Psychology	3
Child Study, or, Principles of Secondary Education	2
School Administration	1
Practice Teaching	1

(For further definition of these requirements, see the introductory note under the university subject of "Education.")

The electives should be chosen with direct reference to the subjects which the student wishes to teach.

THE TEACHER'S DIPLOMA.

The Teacher's Diploma is granted in connection with the Bachelor of Arts degree, upon the fulfilment of the following conditions: *a*. The student must have satisfactorily completed the courses of study defined in the preceding paragraph. *b*. He must, in the judgment of his instructors, also possess other qualifications essential to success in teaching.

The Diploma is also given in connection with higher degrees, provided a graduate student has taken a major or minor in Education, and has also satisfied the requirements *a* and *b* above, or in lieu of *a*, has completed an equivalent amount of pedagogical and other work in another institution.

TEACHER'S SCHOLARSHIPS.

With a view to encouraging the continuous pursuit through a period of years of professional studies by teachers already engaged in teaching, and further of enabling them to complete the professional requirements for a Degree and a Diploma without disproportionate expense, the University has established and offers to teachers in actual service Teacher's Scholarships of a value of one-third the regular fees, on condition that the holder shall complete six units in Education within three years or less, or nine units within four years or less. Application for Teacher's Scholarships should be made upon blank forms to be obtained from the Registrar of the University, or at the office of the Division of Education.

UNIVERSITY SCHOLARSHIPS.

Undergraduate University Scholarships are offered to students registered in the Division of Education on the same terms on which they may be held in other departments of the University. For particulars, see pp. 47-49.

PRACTICE TEACHING.

Ample opportunity will be afforded for practice in teaching by (a) attendance upon observation classes conducted by experienced teachers, and (b) actual practice in teaching under the supervision and subject to the criticism of teacher critics.

EXPERIMENTAL WORK.

A psychological laboratory for introductory experimental work occupies the entire fourth floor of the Education Building. It comprises an instrument room, a general laboratory, a research room, a dark room for experiments on vision, and a photographic dark room.

The equipment is specially adapted to the investigation of problems of interest to students of education. The advanced courses in experimental psychology are conducted at the Government Hospital for the Insane. These courses are modified each year to meet the requirements of the students electing them, and the facilities and equipment of this laboratory are in many respects unrivalled.

The school system of a large city, moreover, offers abundant opportunity for observation, and for the statistical study of methods and other practical educational problems.

TEACHERS APPOINTMENT BUREAU.

The Division of Education maintains a Teachers Appointment Bureau for the purpose of aiding students who are studying, or have studied, in the Teachers Course, or in Columbian College, to secure positions as teachers. This service is performed gratuitously, in the interest both of students and of superintendents of schools and boards of education wishing to employ teachers. Communications should be addressed to the "Teachers Appointment Bureau," The George Washington University.

SCHOOL OF ARTS AND CRAFTS.

The extensive introduction of manual training, shop work, and the study of the art handicrafts into the public schools has created a large demand for duly qualified teachers of these branches. This demand, together with the general development of industrial education and the establishment of trade schools, has led the University to establish a School of Arts and Crafts in the Division of Education. While the primary aim is to provide adequately trained teachers to give instruction in these subjects, it is designed also to offer courses in the art handicrafts to students and others who may desire to pursue them mainly for their culture value.

The aims and methods of instruction in these Arts of the Home have, especially for grade pupils, a broad and deep cultural effect; the training of the judgment, of artistic appreciation, and of the skill of the hand, are assets of great future value to any child, while the vocational training of the more practical manual arts brings the school into close touch with the demands of the workaday world. From the standpoint, therefore, of the results of education in raising the standards of living for the people at large, the introduction of the art handicrafts into the schools needs no special justification; and the universities and teachers colleges must provide the teachers for the schools.

The courses of instruction in the School of Arts and Crafts are at once theoretical and practical, the student learning by actual manual

work the application of principles in the production of concrete art products. The School at present comprises five Crafts, each of which is accommodated in a separate studio or shop, viz., Drawing and Water Color, Practical Designing, Metal Work, Book Binding, Rug Making. It is expected that other Crafts will shortly be added.

A Normal Training Course extending over two years, and embracing, in addition to the Arts and Crafts courses, allied branches in Education, Æsthetics, and the History of Art, together with general culture courses in modern languages, will be offered, beginning with the academic year 1908-09. On the completion of the Normal Course, a special diploma in teaching Applied Design will be granted.

Department of Arts and Sciences.

COURSES OF INSTRUCTION.

UNIVERSITY SUBJECTS.

University Subjects are divided into three sections, in accordance with the following requirement of an ordinance adopted by the Board of Trustees, October 12, 1902:

ARTICLE IV.—*Development of University Subjects.*

SECTION 1. Subjects shall be divided into three sections, as follows:

(1) The fundamental section, covering two years' work; this section to be assigned to students in the general-culture courses.

(2) The advanced section, not exceeding three years; this section to be assigned to students specializing for literary, scientific, professional, or industrial pursuits.

(3) The original research section; this section to be assigned to students pursuing a subject for discovery and broader culture.

The courses in the first section may sometimes be recommended to graduate students, but are not counted toward the higher degrees. The courses in the second section are in general for advanced students, candidates for the Bachelor's degree; they serve, however, with additional work as minors for the higher degrees, provided they have not already counted toward a degree. They may be taken by students in the second year of their course only by special permission of the professor in charge. The courses in the third section are in general for graduate students only, candidates for one or other of the higher degrees. They are open to undergraduates only on the recommendation of the instructors, and no undergraduate student shall take in one year more than one course in the third section. When an announced course has not been applied for by at least three students, candidates for a degree, the instructor may withdraw the course. First-section courses are numbered 1 to 19, inclusive; second-section courses from 20 to 39, inclusive; third-section courses are numbered on from 40. The number of hours, unless otherwise specified, indicates hours per week throughout the year. The unit of credit is one hour of recitation or lecture work per week for one academic year; laboratory hours in Chemistry and Architecture count one-third unit each, in other subjects one-half unit each. Sixty units of credit is the minimum requirement for the Bachelor's degree. Laboratories and drawing-rooms will be open from

9 a. m. till 10 p. m., with competent assistants in charge to direct students. No student is admitted to a course unless he fulfills all of the preliminary requirements for that course, or otherwise satisfies the instructor that he is prepared to pursue it. Every student must make his election of courses so as to avoid conflict between the hours appointed for recitations.

ANATOMY.

D. Kerfoot Shute, A.B., M.D.....*Professor*

Third Section. Primarily for Graduates.

40. Anatomy of the Nervous System.—The nervous system is investigated in typical animals of the different classes, especially with the view of gaining some insight into the phylogeny of the central nervous system in man. The growth of the brain and its physical characters as related to intelligence are investigated. The histology and embryology of the central nervous system and the sense organs are studied. A history of the guiding conceptions in neurology is to be acquired. The course is designed to inculcate students of anatomy, medicine, and psychology with a sound knowledge of the architecture and functions of the nervous system of man. Two hours. Professor Shute.

APPLIED MATHEMATICS.

Edwin V. Dunstan, C.E.....*Assistant Professor*
Oscar A. Mechlin, C.E.....*Assistant Professor*

Second Section. For Undergraduates and Graduates.

20. Analytical and Applied Mechanics. (1) Statics: including the composition, resolution, and equilibrium of forces; center of gravity; friction; machines. (2) Kinematics and Kinetics: including rectilinear and curvilinear motion; motion under action of variable forces and in resisting media; constrained and rotatory motion; impact; work and energy; moment of inertia. Four hours a week first half-year. Assistant Professor Dunstan.

21. Hydraulics. The theoretical principles of hydraulics, including hydrostatics, flow through orifices, over weirs, through pipes and in open channels, and the dynamic pressure of water. Experiments in connection with this course are made in the Engineering Laboratory. Four hours a week second half-year. Assistant Professor Dunstan.

22. Mechanics of Materials and Theory of Elasticity, including elastic and ultimate strength and deformation; simple, cantilever and continuous beams; columns, torsion; combined stresses; compound columns and beams, including reinforced concrete; resilience; work; fatigue; mathematical theory of elasticity. Four hours a week second half-year. Assistant Professor Mechlin.

ARCHITECTURE.

PERCY ASH, B.S.....*Professor in charge*
ALBERT BURNLEY BIBB.....*Professor*
CHAS. MASON REMEY.....*Assistant Professor*
CHAS. R. LOMBARD, B.S.....*Assistant*

Criticisms in design are regularly given by practicing architects, in addition to the regular corps of instructors.

Instruction in drawing from the antique and from life is given at the Corcoran Gallery of Art by Mr. Brooke, Miss Mueden, and Mr. Messer.

First Section. Primarily for Undergraduates.

1. Freehand Drawing. This course consists of drawing, in charcoal, of cubes, cones, etc. Professor BIBB.

2. Freehand Drawing. For architectural students primarily. This course begins with drawing, in charcoal, of cubes, cones, etc., and is followed by a series of drawings from architectural casts. *Mon.* 4.50, *Wed.* 10 to 12 and 5.40. Professor BIBB.

3. Architectural Drawing and Elementary Design. This course includes the study of the Five Orders of Architecture, the use of India ink, and water-color rendering. Lectures on the Five Orders on Tuesday, at 4.50, and at least eleven additional hours in the drafting room. Professor ASH.

4. Shades, Shadows, and Perspectives. A course in orthographic projections, shades, shadows, and perspectives. *Tues.* and *Fri.*, at 11 and 5.40. Assistant Professor REMEY.

5. Rendering and Design. In this course the instructions in India ink rendering and the use of water colors given in the first year are continued. At least twelve hours each week are devoted to the problems in design. Six regular problems and five sketch problems constitute the course in design. Criticism, by Professor ASH and Assistant Professor REMEY.

6. Freehand Drawing. The drawing from architectural casts in both charcoal and pencil continues the work begun in the first year, and is intended to fit the student for his subsequent freehand drawing from the antique. *Mon.* 4.50, *Wed.* 10 to 12 and 5.40. Professor BIBB.

Second Section. For Undergraduates and Graduates.

20. History of Architecture. History of Classical and Early Christian architecture. Illustrated. Two lectures per week. *Tues., Fri.*, at 4.50. Professor BIBB.

21. Building Construction. Frame construction and interior finish. Professor ASH.

22. Sanitary Engineering of Buildings. One hour. (Course to be arranged.)

23. History of Architecture. History of Renaissance architecture. Illustrated. Two lectures per week, and one additional hour for research. *Mon., Fri.,* at 4.50. Professor Ash.

24. Pen and Ink Rendering. A study of the works of the best draftsmen, with practice in the use of the pen as a means of architectural expression. *Thu.,* 10 and 4.50. Professor Ash.

25. Design and Sketch Design. This course embraces problems in plan, in archæology, and in sketch design. Three problems in archæology, three plan problems, and five sketch problems constitute the course. The student is required to spend at least sixteen hours in the drafting-room each week. Criticism, by Professor Ash and Assistant Professor Remey.

26. Drawing from the Antique. To be eligible for this course the student must have passed satisfactorily Course 6. He is required to devote at least four hours per week to working from the antique in the Corcoran Gallery of Art.

27. Design and Sketch Design. Thesis. Problems of an advanced character are assigned to the student during the first term. Three advanced problems and three sketch problems are required of the student in addition to his thesis. The three months preceding graduation are devoted to the production of the thesis designs, the subject for the thesis being selected by the student. The student is required to spend twenty hours each week in the drafting-rooms. Criticism is given three times a week by Professor Ash and Assistant Professor Remey.

28. Modeling (Architectural). This course will be arranged and an instructor appointed at an early date.

Classical Archæology, 21, *Mon.,* and *Thurs.,* at 4.50. Professor Carroll.

History of Art. See Classical Archæology, 23. *Mon., Wed., Fri.,* at 1.30. Miss Ellis.

31. History of Painting and Sculpture. This course will comprise a series of illustrated lectures on painting and sculpture. Professor Bibb.

32. History of Mediæval Architecture. Two lectures and one hour for research per week. Professor Bibb.

33. Building Construction. Masonry, cements, foundations, soils, etc. *Mon.,* at 5.40, *Tues.,* 10, *Wed.,* 4.50, *Thur.,* 10. Professor Ash.

34. Water Colors. *Thurs.,* at 4.50 and 5.40. Professor Bibb.

35. Drawing from Life. Six hours per week at the Corcoran Gallery of Art.

36. Office Practice. A course of practical planning and detailing. Four hours per week. Professor Ash.

37. A special course in design will be given, consisting of six regular and five sketch problems. This course is intended to prepare students for the Beaux Arts problems. Criticisms, by Professor ASH and Assistant Professor REMEY.

38. In this course the problems prepared by the New York Society of Beaux Arts Architects will be offered to the students, and the judgments will be made by the jury in New York City under the rules of the society. Criticisms, by Professor ASH and Assistant Professor REMEY.

39. Summer Work. Each architectural student is required during the summer vacation to make at least twenty-four sketches from nature, or to do an equivalent amount of work, namely, four weeks in an architect's office, or the measured drawings of an existing monument of architecture.

Third Section. Primarily for Graduates.

40. Composition as applied to architecture.

41. Advanced design.

ASTRONOMY.

ASAPH HALL, JR., Ph.D. ..... *Professor*
F. CHARLES STARR, B.S. ..... *Instructor*

First Section. Primarily for Undergraduates.

1. A course in Practical Astronomy for Civil Engineering students. Special attention is given to the methods of determining latitude, longitude, azimuth and time with the engineer's transit; observations for each being a required part of the course. Reference book: Young's "Manual of Astronomy." Two lecture-recitation periods per week for one term. Mr. STARR.

Third Section. Primarily for Graduates.

40. Celestial Mechanics. Theory of central forces; theory of parabolic and elliptic orbits. Lectures with reading from the works of Gauss, Oppolzer and Moulton. Professor HALL.

ASTRO-PHYSICS.

FRANK HAGAR BIGELOW, A.M., L.H.D. ..... *Professor*
FREDERICK E. FOWLE, JR. ..... *Lecturer*

Third Section. Primarily for Graduates.

40. Solar Physics. The constitution of the sun, the sun-spots, faculæ, prominences, and the coronas; the circulation of the solar mass and the distribution of these phenomena in latitude and longitude, their variations in the 3-year, 11-year, and 33-year periods; the grounds for

the theory that the sun is a magnetized body, associated with electric currents and an ionized radiation. Professor BIGELOW.

41. Cosmical Electricity and Magnetism. The two fields of force emanating from the sun, their modes of propagation through the ether as electromagnetic and magnetic types of energy, and their relation to the heat and light received by the earth; the laws of radiation and the determination of the solar constant; the variations in the solar spectrum due to changes in the physical states of the sun's and the earth's atmospheres. Professor BIGELOW.

42. Terrestrial Magnetism. The distribution and secular variation of the magnetism of the earth, its periodic and irregular disturbances by solar action; magnetic observatories, instruments, and methods of observing; atmospheric electricity and ionization; terrestrial radioactivity and emanations; auroras, magnetic storms, and their relation to the gases of the atmosphere, with a history of the progress of science in these lines of research; the work of the Mount Weather Meteorological Research Observatory in connection with solar physics. Professor BIGELOW.

43. Meteorology. The theories of the general motions of the earth's atmosphere and of the generation of local cyclones and anti-cyclones, periodic variations in the pressure, temperature and precipitation of the atmosphere due to solar operations; short and long range predictions of the weather for the United States. Professor BIGELOW.

44. A lecture course on the astro-physical instruments employed in modern research; the siderostat, the coelostat, the bolometer, the spectroheliograph, spectroscopes and telescopes generally, explaining their mechanical parts, the methods of obtaining the instrumental errors, and the formulæ for reducing the observations. To be taken in connection with Courses 40 and 41. Mr. FOWLE.

BACTERIOLOGY AND PATHOLOGY.

JOSEPH J. KINYOUN, M.D., Ph.D.....*Professor*

Third Section. Primarily for Graduates.

40. Bacteriology. Special studies and practical research work. Professor KINYOUN.

BOTANY.

ALBERT MANN, A.M., Ph.D.....*Professor*
WALTER FISCHER, M.A.....*Instructor*

First Section. Primarily for Undergraduates.

1. General Plant Morphology and systematic relationships between higher and lower forms as to structure and organs. First half year.

General Plant Physiology, especially of the higher plants. Second half year. Lectures, *Tu.*, at 4.50. Laboratory work, *Th.*, 4.50 to 6.30.

2. Biological Botany; Ecology, the relation of plants to each other and to their environment; Geographical Botany and the distribution of plants. First half year.

Paleontological Botany; Comparative Morphology of Plants in relation to origin and to the classification of existing plants. Second half year. Lectures, *Tu.*, at 5.40. Laboratory work, *Sat.*, 4.50 to 6.30.

Second Section. For Undergraduates and Graduates.

21. Plant Histology; studies in general cell structure and in Comparative Embryology. First half year.

Higher Plant Physiology; modifications in structure by natural and artificial means; cultivated plants. Second half year. Lecture, one hour. Laboratory, two hours.

Third Section. Primarily for Graduates.

40. Original investigations in (*a*) Economic Botany, Materia Medica, etc.; (*b*) Parasitism and Monstrosities; (*c*) Researches in Physiology of single groups; (*d*) Comparative Organography.

CHEMISTRY.

CHARLES E. MUNROE, Ph.D.....*Professor*
FRANK WIGGLESWORTH CLARKE, Sc.D..*Professor of Mineral Chemistry*
HARVEY W. WILEY, Ph.D., M.D....*Professor of Agricultural Chemistry*
EDWARD G. SEIBERT, M.D.....*Assistant Professor*
N. MONROE HOPKINS, Ph.D.....*Assistant Professor*
EDWIN A. HILL, Ph.D.....*Assistant Professor*
THOMAS M. PRICE, Ph.D.....*Assistant Professor*
OTIS D. SWETT, B.S.....*Instructor*
WILLIAM E. HILLYER, M.S.....*Assistant*
HORACE H. CUSTIS, B.A.....*Assistant*
ALBERT P. CLARK, Phar.D.....*Assistant*
FRANK A. HORNADAY, B.S.....*Assistant*
HAROLD L. AMOSS, B.S.....*Assistant*

First Section. Primarily for Undergraduates.

1. General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. *Tu., Th., Sat.*, at 4.50. Professor MUNROE, Mr. SWETT.

2. Laboratory Practice. A laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Two three-hour periods. *Tu., Th.*, at 1.30. Professor MUNROE, Assistant Professor HILL, Mr. HILLYER, Mr. CUSTIS.

3. Preparation and Study of the Properties of Chemical Substances. A laboratory course. Two three-hour periods. *Tu., Th.,* at 1.30. Professor MUNROE, Assistant Professor PRICE, Mr. HILLYER, Mr. CUSTIS.

4. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months. Professor MUNROE, Mr. CUSTIS.

5. Lectures on the Principles of Analysis. One hour. Professor MUNROE.

6. Metallurgy of Iron and Steel. A course of lectures and readings. *Tu.,* at 5.40. Professor MUNROE.

7. Qualitative Analysis. A brief course intended primarily for students in engineering. Two three-hour periods. Professor MUNROE, Assistant Professor HILL, Assistant Professor PRICE, Mr. HILLYER, Mr. CUSTIS.

Second Section. For Undergraduates and Graduates.

20. Qualitative Analysis. A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Three three-hour periods. Professor MUNROE. Assistant Professor PRICE, Mr. CUSTIS.

21. Quantitative Analysis. A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Four three-hour periods. Professor MUNROE, Assistant Professor PRICE, Mr. CUSTIS.

23. Advanced course in Organic Chemistry. *Wed., Fri.,* at 4.50. Professor MUNROE, Mr. SWETT.

24. Advanced course in Organic Chemistry. A continuation of Course 23. *Th., Sat.,* at 5.40. Professor MUNROE, Mr. SWETT.

25. Chemistry of the Carbon Compounds. A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Four three-hour periods. Professor MUNROE, Assistant Professor PRICE, Mr. SWETT.

27. Stereo-chemistry. This course deals with the arrangements of atoms in space from a theoretical standpoint, while the student is taught how to form models by which to illustrate their arrangements. Two hours. Assistant Professor HILL.

28. Biochemistry. A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive

enzymes and a study of their action *in vitro*. Three three-hour periods. Assistant Professor PRICE.

29. Organic Chemistry. Especially designed for students in medicine and dentistry. Two hours for one term. Professor MUNROE.

30. Physiological Chemistry. A series of lectures and recitations on the proximate principles of the human body. Two hours for one term. Assistant Professor SEIBERT.

31. Clinical Analysis. A laboratory course to accompany 29. Professor MUNROE, Assistant Professor SEIBERT, Dr. CLARK, Mr. HORNADAY, Mr. AMOSS.

Third Section. Primarily for Graduates.

40. Explosive Substances. Professor MUNROE.

41. Analytical Methods. Professor MUNROE.

43. Development of the Theory of the Constitution of the Natural Silicates. Professor CLARKE.

44. Special Researches in Agricultural Chemistry. Professor WILEY.

45. Special Researches in Electro-chemistry. Assistant Professor HOPKINS.

Students in Chemistry are invited to attend the meetings of the Chemical Society of Washington. These meetings are held on the second Thursday of each month from October to May, in the Assembly Hall of the Cosmos Club, at 8 p. m.

CIVIL ENGINEERING.

EDWIN V. DUNSTAN, C.E.....*Assistant Professor*
OSCAR A. MECHLIN, C.E.....*Assistant Professor*
F. CHARLES STARR, B.S.....*Instructor*

First Section. Primarily for Undergraduates.

1. Surveying and Mapping. This course includes the theory and use of instruments; land, topographic, hydrographic, mining, city, and geodetic surveying; measurement of volumes, projection of maps, etc. Two hours a week. Field work, usually on Saturday. Mr. STARR.

2. Railroad Engineering. Railroad curves and earthwork; location of about two miles of railroad, including reconnaissance, preliminary and final locations, construction of contour maps and profiles, computation of earthwork, design of culverts, etc.; laying out curves; track work, etc. Two hours a week. Field work, usually on Saturday Assistant Professor DUNSTAN.

3. Highways and Pavements. Location of highways; construction, improvement and maintenance of roads and pavements; curbs, gutters,

sidewalks. One lecture and one design period during the first term. Assistant Professor MECHLIN.

4. Materials of Construction. A study of the properties of stone, brick, cement, concrete, wood, iron, steel, etc., with reference to processes of manufacture. The course is supplemented by a number of practical tests made by the students. Two lectures for first term and one lecture and one laboratory period for second term. Assistant Professor MECHLIN.

5. Surveying Instruments. A two months' course for Mechanical and Electrical Engineering students, covering the use of the compass, transit, and level. Lectures and field exercises, two hours per week. Mr. STARR.

6. Foundations. A two months' course for Mechanical and Electrical Engineering students, covering the general principles of foundation construction and the materials used. Two hours a week. Assistant Professor MECHLIN.

7. Engineering Laboratory. Experimental work in connection with Applied Mathematics, 21, 22; Civil Engineering, 22, 24, and Mechanical Engineering, 23. One laboratory period per week for the second term. Assistant Professor DUNSTAN, Assistant Professor MECHLIN, Mr STARR.

Second Section. For Undergraduates and Graduates.

20. Masonry Construction. A course in the use of cement, brick, stone, and concrete, the design of foundations, retaining walls, dams, bridge piers and arches. Included in this is a short course in stereotomy. Two lectures and two design periods per week. Assistant Professor MECHLIN.

21. Hydraulic Engineering. The design and construction of water power plants and irrigation works. Flow of rivers; rainfall and runoff; methods of development; hydraulic motors; power transmission. Irrigation plans; distributing systems; water rights and irrigation law. Two lectures and one design period per week. Assistant Professor DUNSTAN.

22. Theory of Structures. A course covering the determination of stresses in framed structures by graphical and by analytical methods. The first term is devoted to beams and roof trusses; the second to bridge trusses under uniform and wheel loads. Three lectures and two design periods per week. Assistant Professor DUNSTAN.

23. Theory of Structures. The theory of steel design; the design of a roof truss, of a plate girder and a pin connected bridge truss and a study of the theory and design of suspension, continuous, cantilever, and arch bridges, and the details of steel mill and office buildings con-

struction. Three lectures and two design periods per week. Assistant Professor MECHLIN.

24. Sanitary Engineering. This course treats of the drainage of buildings and lands, the treatment and disposal of sewage and the sewerage of cities and towns: public water supply and methods of water purification. Three lectures and one design period per week. Assistant Professor MECHLIN.

Third Section. Primarily for Graduates.

40. Advanced Masonry. A course in the theory and design of reinforced concrete structures. Assistant Professor MECHLIN.

41. Advanced Masonry. The theory of retaining walls and arches. Assistant Professor MECHLIN.

42. Testing of Materials. This course involves original research upon assigned topics. Assistant Professor MECHLIN.

43. Water Power Development. A comparative study of the principal water power developments of the United States and Europe. The course consists largely of assigned readings and reports thereon. Assistant Professor DUNSTAN.

CLASSICAL ARCHÆOLOGY AND THE FINE ARTS.

MITCHELL CARROLL, Ph.D.....*Professor*
HARRIETT STRATTON ELLIS, A.B.....*Instructor*

Second Section. For Undergraduates and Graduates.

Courses 20, 21, 22 form a cycle extending over a period of three years. The work constitutes a two-hour elective, or either the lectures on Mondays or the class conferences on Thursdays may be taken as a one-hour elective. A knowledge of Greek or Latin is not essential.

20. Topography and Monuments of (*a*) Athens and (*b*) Rome. A study of the history, topography, and monuments of the chief centers of ancient life. Given in 1906-07. Not given in 1908-09. *Mon., Th.,* at 4.50. Professor CARROLL.

21. An Historical Survey of Greek and Roman Civilization. Given in 1908-09. *Mon., Th.,* at 4.50. Professor CARROLL.

22. Greek and Roman Architecture and Sculpture. Given in 1907-08. Not given in 1908-09. Professor CARROLL.

23. History of Art, a course in the history of sculpture, architecture, and painting. (a) Greek and Roman. First half-year. (b) Renaissance and Modern. Second half-year. *Mon., Wed., Fri.,* at 1.30. Miss ELLIS.

Attention is called to the following courses under *Architecture:*

20. History of Classical and Early Christian Architecture. *Tues., Fri.,* at 4.50. Professor Bibb.

23. History of Renaissance Architecture. *Mon., Fri.,* at 4.50. Professor Ash.

CLASSICAL LANGUAGES AND LITERATURES.

Mitchell Carroll, Ph.D.....*Professor*
Charles Sidney Smith, Ph.D.....*Professor*
M. Walton Hendry, A.B.....*Assistant*

GREEK.

First Section. Primarily for Undergraduates.

1. Lysias (selected orations); Herodotus (selections); Euripides (Alcestis); Greek prose composition. *Mon., Wed., Fri.,* at 2.30. Professor Smith and Hr. Hendry.

2. Thucydides (Book VII); Sophocles (Antigone); Xenophon (Memorabilia). *Mon., Wed., Fri.,* at 11. Professor Smith and Mr. Hendry.

A. Elementary Course. For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirements in Greek. With private study during the summer the student may be able to take up Course 1 at the beginning of the following year with condition on Homer. Three hours. Professor Smith.

Second Section. For Undergraduates and Graduates.

20. Plato (selections); Aristophanes (Clouds); The Attica of Pausanias. *Tu., Th.,* at 9. Professor Carroll.

21. Greek Literary Criticism: Aristotle (Art of Poetry); Aristophanes (Frogs); Greek Lyric Poetry (selections); Conferences on History of Greek Literature. Given in 1907-08. Not given in 1908-09. Professor Carroll.

22. Greek Prose Composition (advanced course): Practical exercises in syntax and translation. *Th.,* at 11. Professor Carroll.

23. Homer: Rapid reading of the Odyssey. One hour. Given in 1907-08. Not given in 1908-09. Mr. Hendry.

24. Lucian (selections). For rapid reading. *Th.,* at 3.30. Mr. Hendry.

LATIN.

First Section. Primarily for Undergraduates.

1. Livy (Books I, XXI); Cicero (De Senectute); Horace (Odes and Epodes); Latin prose composition. *Mon., Wed., Fri.,* at 1.30. Professor CARROLL and Professor SMITH.

2. Cicero and Pliny (selected letters); Satires and Epistles of Horace; Ovid (selections); Martial (selections). *Mon., Wed., Fri.,* at 3.30. Professor CARROLL and Professor SMITH.

Second Section. For Undergraduates and Graduates.

20. Tacitus (selections); Plautus and Terence; *Tu., Th.,* at 10. Professor CARROLL and Professor SMITH.

21. Roman Literary Criticism: Quintilian (Book X) and Horace (Ars Poetica); Catullus, Tibullus, and Propertius. Given in 1907-08. Not given in 1908-09. Professor CARROLL.

22. Latin Composition and Reading at Sight: Practice in Latin expression and style. *Tu.,* at 1.30. Professor SMITH.

23. History of Roman Literature. *Th.,* at 1.30. Professor SMITH.

Courses for Advanced Students Who Expect to be Teachers.

24. Cicero's Orations. Given in 1906-07. Not given in 1908-09. Two hours. Professor CARROLL.

25. Cæsar's Gallic and Civil Wars. Given in 1907-08. Not given in 1908-09. Professor CARROLL.

26. Vergil's Complete Works. Given in 1908-09. Professor CARROLL.

NOTE.—Students in Greek and Latin are recommended to take as electives the following courses in Classical Archæology:

21. An Historical Survey of Greek and Roman Civilization. Given in 1908-09. *Mon., Th.,* at 4.50. Professor CARROLL.

23. History of Art, Greek and Roman. First half-year. *Mon., Wed., Fri.,* at 1.30. Miss ELLIS.

Third Section. Primarily for Graduates.

THE SEMINARY OF CLASSICAL PHILOLOGY.

Professor CARROLL ..... *Director*

The design of the Seminary of Classical Philology is to afford discipline in the methods of philological criticism and research with especial reference to the interpretation of classical authors. It is composed of all graduate students in Classical Languages, and is under the supervision of the Director, who is assisted by the other instructors of the

department in certain features of the work. The authors selected for criticism and interpretation are as follows:

1907-08. Greek, 40, Thucydides; Latin, 40, Tacitus.

1908-09. Greek, 41, Homer; Latin, 41, Vergil.

1909-10. Greek, 42, Attic Orators; Latin, 42, Cicero.

1910-11. Greek, 43, Aristophanes; Latin, 43, Plautus.

Regular meetings of the Seminary are held on *Tu., Wed.,* at 4.50.

School of Classical Studies at Athens.—The University, through friends, is a contributor to the support of the American School of Classical Studies at Athens, and graduates of this University are entitled to all its advantages without expense for tuition.

THE CLASSICAL CLUB.

The University Classical Club, which is composed of instructors and advanced students in Greek and Latin and Classical Archæology, meets monthly for the more detailed discussion of special topics in ancient life, literature, and art than is ordinarily possible in the class-room. Teachers and patrons of the classics in Washington are admitted as associate members, and at open meetings the club avails itself, when possible, of the services of eminent scholars from other universities who may be temporarily in the city.

Students in classical languages and members of the Classical Club are invited to attend the public lectures of the Washington Society of the Archæological Institute of America, and the meetings of the Washington Classical Club organized February 29, 1908.

ECONOMICS AND SOCIOLOGY.

C. W. A. Veditz, Ph.D., LL.B.....*Professor of Economics*
Henry Parker Willis, Ph.D.....*Professor of Finance*
Oscar P. Austin .....*Professor of Commerce and Statistics*

Note.—Advanced and special courses in Economics and Sociology will be offered in the College of the Political Sciences, concerning which a separate announcement is in preparation.

First Section. Primarily for Undergraduates.

1a. Principles of Economics. An outline course in the principles of political economy, devoted mainly to the study of production and exchange under present-day conditions. Three hours, first half-year. *Mon., Wed., Fri.,* at 11. Professor Veditz.

1b. Principles of Economics. Parallel with Course 1a. Three hours, first half-year. *Mon., Wed., Fri.,* at 4.50. Professor Veditz.

2a. The Economics of Distribution and Consumption. A continuation of Course 1a, devoted mainly to the problems of rent, interest, wages

and profits, and including an examination of competition, private property, luxury, saving and speculation, in their effects on human welfare. Three hours, second half-year. *Mon., Wed., Fri.,* at 11. Professor VEDITZ.

2b. The Economics of Distribution and Consumption. Parallel with Course 2a, and a continuation of Course 1b. Three hours, second half-year. *Mon., Wed., Fri.,* at 4.50. Professor VEDITZ.

3. Commercial Geography. A study of the resources of the United States and of foreign countries, together with a detailed account of our foreign and domestic trade, and the conditions of its recent development. Two hours, throughout the year. Professor AUSTIN.

5. History of Commerce. The rise and progress of commerce from antiquity to modern times, with particular emphasis on the effects of commerce upon civilization and the relations between commercial and political development. Three hours, first half-year. Professor VEDITZ.

6. Industrial History of the United States. A connected account of the rise and progress of economic activities in the English colonies of North America and of the agricultural, commercial, and industrial growth of the United States. Three hours, second half-year. Professor VEDITZ.

Second Section. For Undergraduates and Graduates.

21. Money and Banking. The history and theory of money; the production of the precious metals; the theory of prices and measurement of price fluctuations; monetary systems; the Treasury system; credit and banking; the banking systems of the United States and other countries. Three hours, first half-year. Professor WILLIS.

22. Theory and Practice of Statistics. The elementary principles of statistics, with concrete examples of their applications; the graphic method; the use of averages; index numbers; and the special application of statistics to insurance; government statistical methods and publications in the United States and in the principal foreign countries. Three hours, second half-year. Professor WILLIS.

23. Corporation Finance. The various sorts of corporation securities: methods of organizing and financiering modern industrial enterprises; the nature of investment and speculation; stock and produce exchanges; the effect of speculative and investment operations on the staple industries. Three hours, first half-year. Professor WILLIS.

24. Accounting. General principles of accounting; the more important forms of commercial paper and business methods. A text-book on accounting and hand-books of business forms are used as guides. The course terminates with a study of the accounts of representative

kinds of business and the methods of accounting and auditing applicable thereto. Three hours, second half-year. Professor WILLIS.

25. Public Finance and Taxation. The modern budget, with especial reference to the United States; analysis of the theory of taxation, its shifting and incidence. The legal problems which arise in connection with taxation will be studied through typical cases. Two hours, second half-year. Professor WILLIS.

31. The Science of Society. A general course in theoretical sociology. The nature of society; the factors of social evolution; the biological, economic and psychological interpretation of society; race, environment, and heredity; social progress. Two hours, first half-year. Professor VEDITZ.

32. American Social Problems. A course in practical sociology, for the discussion of such topics as immigration, pauperism, unemployment, charity organization and poor relief, slums, intemperance, and criminality. Two hours, second half-year. Professor VEDITZ.

Third Section. Primarily for Graduates.

40. Criminology and Penology. An advanced course in social philosophy for the consideration of the following subjects: The concept of crime; the necessity of legal compulsion; evolution of the idea of crime; the lex talionis; the nature and purposes of punishment; social defense; the individualization of punishment; capital punishment; duels and ordeals; reformation; the indeterminate sentence; the French *loi Bérenger;* juvenile courts; prison systems; etc. Professor VEDITZ.

41. Seminary in Economics and Sociology. A limited number of students competent to undertake advanced work are organized into a Seminary for the investigation of problems in Economics and Sociology. Two hours. Professor VEDITZ.

EDUCATION.

WILLISTON S. HOUGH, Ph.M. ..... *Professor*
WILLIAM CARL RUEDIGER, Ph.D. ..... *Assistant Professor*
ELMER ELLSWORTH BROWN, Ph.D. ..... *Lecturer*
GEORGE E. MYERS, Ph.D. ..... *Lecturer*
WILLARD S. SMALL, Ph.D. ..... *Lecturer*
WILLIAM W. BLACK, A.M. ..... *Lecturer*
STEPHEN ELLIOTT KRAMER, B.S. ..... *Lecturer*
HARLAN UPDEGRAFF, Ph.D. ..... *Lecturer*
HARRY S. MICHIE. ..... *Director of Arts and Crafts School*
MARIAN LANE. ..... *Assistant in Applied Design*
FRANCES L. THOMSON. ..... *Assistant in Applied Design*
HELEN R. ALBEE. ..... *Assistant in Applied Design*

Course 1 in Psychology must precede, or be taken parallel with, the first course in Education; but normal school graduates, or teachers of experience, may satisfy this requirement by taking Course 2 in Psychology either before or in conjunction with their first course in Education. Students may begin their work in Education with either the Principles and Psychology of Education (Courses 1 or 2), or the History of Education (Courses 20 or 21); but one or the other must precede, or be taken parallel with, all other courses in Education. (These requirements do not apply to Courses 10-15.) Candidates for a degree in the Teachers Course are required to complete before graduation Courses 1 or 2, 20 or 21, 22 or 24, 27 and 31. Students who are permitted to substitute Course 2 for Course 1 may also substitute an elective, counting 1 unit, for Course 31. Students desirous of specializing in School Administration are advised to take also Courses 1 and 2 in Economics and 20 and 21 in Sociology.

First Section. Primarily for Undergraduates.

1. The Principles and Psychology of Education:

1a. Principles of Education. It is the aim of this course to consider the place and function of education in the social organism as revealed by biological, sociological, and ethical principles, and to make explicit the relation of these principles to educational aims and values, to the selection of studies, and to the problems of school organization. Lectures and assigned reading. First half-year. *Mon., Wed., Fri.,* at 9.00. Assistant Professor RUEDIGER.

1b. Educational Psychology. It is the aim of this course to apply the principles of psychology to teaching. Among the topics considered are the fundamental instincts and capacities, individual differences, habit formation, apperception, inductive and deductive methods, lesson plans, moral training, motor training, formal discipline. Text-book and reference reading. Second half-year. *Mon., Wed., Fri.,* at 9.00. Assistant Professor RUEDIGER.

2. The Principles and Psychology of Education. (Parallel with Course 1.) Designed for normal school graduates and for teachers in service. *Tu., Th.,* at 4.50. Assistant Professor RUEDIGER.

3. The Psychology of the Teaching Process. The course includes the science and art of the recitation and of school management in general. Specially designed for teachers. *Tu., Th.,* at 4.50, or at an hour to be arranged. First half-year. (Not given in 1908-09.) Mr. BLACK.

10. Theory and Practice of Teaching Principles of Design. Study of the General Principles of the Space Arts in terms of Line. Dark and Light and Color. Appreciation of Historic Ornament. Simple Furniture Designing. Stencilling and Wood Block Printing on Textiles.

Lettering. Mediums are Pencil, Charcoal, Water Color, Ink. Mr. MICHIE.

11. Arts and Crafts 1. Freehand Drawing. Light and Shade Drawing. Principles of Perspective. Sketching of Plant Form, and Still-life Groups. Simple Composition and Drawings from the Antique. The mediums are Pencil, Brush and Ink, and Charcoal. Miss THOMSON.

12. Arts and Crafts 2. Water Color. Form, Values, Composition and Color Harmonies are considered through the medium of Water Color, using Plant Forms, Still-life and Landscape Subjects. Miss THOMSON.

13. Arts and Crafts 3. Book-binding, Comprising Pulling, Mending, Sewing both on tapes and cords, Backing, Putting into Boards, Head-banding, Paring the Leather, Covering both in Half-leather and Whole-leather. Tooling both in Blind and Gold, and Decorating with Inlay of Different Colors. Miss LANE.

14. Arts and Crafts 4. Metal Work. Beaten Metal Work, Riveting, Soldering, Stone Setting, Repoussé, Modeling and Enameling. Mr. MICHIE.

15. Arts and Crafts 5. Rug-Making. Processes of making the Abnakee Rug, including instruction in Design, Stencils, Stamping, Dyeing, Color Harmonies, Hooking, Shading, and Finishing. Nov. to May only. Mrs. ALBEE.

Instruction in Courses 10-15 is given in studio periods as follows: In Day Classes, two three-hour periods a week; in Evening Classes, two two-hour periods a week; Special Course for Teachers, one three-hour period a week.

Second Section. For Undergraduates and Graduates.

20. History of Education. The contributions of Plato, Aristotle, Bacon, Comenius, Locke, Rousseau, Pestalozzi, Froebel, Spencer, Hall, Dewey, and others. Attention will be given to the relations between the educational thought and the great social and political movements of the same period. Monroe's *Brief Course in the History of Education,* with lectures. *Sat.,* 10 to 12. Dr. MYERS.

21. History of Education. A general course in the history of education involving a study of those epochs during which fundamental principles of education were conceived and formulated; the historic basis of present educational problems. Monroe's *Brief Course in the History of Education* and Painter's *Great Pedagogical Essays,* supplemented by assigned reading and reports. *Tu., Th.,* at 11. Assistant Professor RUEDIGER.

22a. Child Study. The psychology, physiology, and hygiene of childhood and adolescence with special reference to the problems of teaching. Kirkpatrick's *Fundamentals of Child Study,* supplemented by lectures, assigned readings and reports. *Sat.,* 10 to 12. First half-year. Dr. SMALL.

22b. School Sanitation and Hygiene. This course will present such data and principles of hygiene and sanitation as are necessary for intelligent teaching. Special attention will be given to the study of the diseases and defects incident to school life, to instruction as related to fatigue, and to particular subjects and practices. Lectures, demonstrations, and reference work. *Sat.,* 10 to 12. Second half-year. Dr. SMALL.

23. Advanced Educational (Genetic) Psychology. A systematic course in those quantitive studies in psychology that bear upon education, followed by a review of the recent literature in educational psychology. Source material will be freely drawn upon. The course is especially designed for high school teachers, supervisors, and grade principals. Thorndike's *Educational Psychology* will be used as the basis of part of the work. Two hours. Not given in 1908-09. Assistant Professor RUEDIGER.

24. Secondary Education. This course will begin with a brief outline of the history of secondary education in America, followed by a consideration of the function of secondary education, recent tendencies in high schools, and adolescence. The major portion of the time will be devoted to an examination of the educational value and methods of presentation of the high school branches and to the organization of courses of study. Lectures, reports and discussions. *Mon., Wed.,* at 11. Throughout the year. Assistant Professor RUEDIGER.

25. Elementary Education. The application of the principles of education and psychology to the elementary school; modern subjects and recent tendencies. The major portion of the time will be devoted to a discussion of the aims and methods pertaining to the elementary school subjects. Lectures, assigned readings, and reports. Two hours. First half-year. Not given in 1908-09. Assistant Professor RUEDIGER.

26. General Method. The logical and psychological factors as determining the processes of learning and teaching. *Mon., Wed.,* at 4.50. Second half-year. Not given in 1908-09. Mr. BLACK.

27. School Administration. A general course including consideration of the different types of school control and support; political and administrative elements in the conduct of schools; relative functions of school board, superintendent and teachers; relations of parents and citizens to these administrative agents; the budget; school buildings; grading, examinations, promotions; curricula; supervision of instruction; medi-

cal inspection; education of delinquents; compulsory education and child labor; and extension of the work of schools. Lectures, assigned readings, reports, and discussions. *Wed.,* at 4.50. Dr. UPDEGRAFF.

28. Educational Theory. Five lectures comprising an introduction to the chief divisions of a general theory of education, and ten lectures on the principal epochs in the development of educational theory. *Fri.,* at 4.50. First half-year. First five lectures, Commissioner BROWN. Ten lectures, Professor HOUGH.

29. Industrial Education. Definition of technical, manual, industrial and trade training, and their inter-relations. Brief historical survey of the industrial aspects of primitive, oriental, Greek, Roman and Mediæval education. Full discussion of the present status of industrial training in Germany, France, England, and America. Present tendencies, problems and dangers. Lectures. *Mon.,* at 4.50 Dr. MYERS.

30. The Method of the Recitation and Practical Problems of Class Management. The purpose of this course is to bring the student of theoretical education into touch with the actual problems of the classroom, and to afford an opportunity for persons actively engaged in teaching to consider the problems of daily teaching by means of class discussions, lectures and assigned readings. *Tu., Th.,* at 5.40, or at an hour to be arranged. Second half-year. Mr. KRAMER.

31a. Observation and Practice. Classes in observation and teaching in practice schools will be organized with the aim in particular to supplement the courses in elementary and secondary education. Two hours per week first half-year. Hours to be arranged. Assistant Professor RUEDIGER.

31b. Observation and Practice. Parallel with Course 31a. Second half-year. Assistant Professor RUEDIGER.

(Course 31 is open only to students taking the Teachers Course, or to graduates taking a major in Education.)

32a. Method in Teaching Grammar and Composition. Designed for both elementary and secondary instruction. *Tu.,* at 4.50. First half-year. Mr. BLACK.

32b. Method in Teaching Reading and Literature. (In sequence to Course 32a.) *Tu.,* at 4.50. Second half-year. Mr. BLACK.

33. Nature Study. Seminary Course. Individual problems worked out with reference to the principles and methods of nature study. *Th.,* at 4.50. Second half-year. Mr. BLACK.

34. Education as a Factor in Public Health. This course will consider the function of education in promoting public health; the present status of health control in public education; and the administration problems involved. Seminar open only to advanced students. Hour to be arranged. Dr. SMALL.

35. Foreign School Systems. A study of the school systems of Germany, England, and France, with a consideration of their bearing upon education in the United States. Lectures, assigned reading and discussions. One hour. Second half-year. Not given in 1908-09.

Third Section. Primarily for Graduates.

40. The Principles of Teaching. Seminar open only to graduates who have had at least three full courses in Psychology and Education. Lectures, topical reference-work, and discussions. Opportunity will be given for the presentation and criticism of thesis material. *Tu.,* at 4.30. Professor HOUGH.

ELECTRICAL ENGINEERING.

PHILANDER BETTS, M.S., E.E.....*Assistant Professor*
CHARLES W. MORTIMER, M.E.....*Instructor*

First Section. Primarily for Undergraduates.

1. Elementary Mathematical Theory of Electricity and Magnetism, with special attention to the needs of engineering students. Three hours a week, until January 1. Mr. MORTIMER.

2. Direct-current motors and generators. Covers the laws of the magnetic circuit as applied to the dynamo. Students are required to design a direct-current machine. Text-books: Hawkins and Wallis's "The Dynamo." Three hours a week, beginning January 1. Assistant Professor BETTS.

3. Elements of Electrical Engineering. Text-book: Tyson Sewell's "Elements of Electrical Engineering." Two hours a week. Mr. MORTIMER.

4. Electrical Measurements. A laboratory course for Juniors. Selected experiments. Foster's hand-book and special laboratory notes are used for reference. Six hours a week, first term. Mr. MORTIMER.

5. Electrical Laboratory. Experiments and tests involving the operation of direct-current dynamos and motors, including tests of motors in service, operating elevators, street cars, and machinery of various kinds. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering." Six hours a week, second term. Assistant Professor BETTS and Mr. MORTIMER.

6. Industrial Electricity. A practical course intended for Juniors in Civil Engineering, embracing the selection and operation of electrical machinery, electric railways and other applications of electric motors. Two hours a week for the first term. Assistant Professor BETTS.

7. Electrical Engineering. A course in theoretical and applied electricity intended for Seniors in Mechanical Engineering. It embraces the

selection and operation of electrical machinery, the location, construction, and operation of power plants, electric railways and transmission lines, the use of electric motors for driving machinery, and the working of storage batteries, elevators, hoists, and cranes. Three hours a week. Assistant Professor BETTS.

8. Electrical Design. A course for Juniors in Electrical Engineering, embracing calculation and design of electrical machinery and accessories, including switchboards, rheostats, instruments, and arrangement of same. One recitation period and one drawing period throughout the year. Assistant Professor BETTS, Mr. MORTIMER.

Second Section. For Undergraduates and Graduates.

21. Alternating Current Theory and Machinery. A course for Seniors in Electrical Engineering, covering the principles of single as well as polyphase currents, including study of machines, circuits, transformers, etc. Four hours a week, Senior year. Mr. MORTIMER.

22. Electrical Distribution. A course for Seniors in Electrical Engineering covering the whole field of distribution of electricity for light and power. Text-book: Crocker's "Electric Lighting"; second volume, "Distribution System." Two hours a week. Assistant Professor BETTS.

23. Electrical Applications. A course for Seniors in Electrical Engineering, covering the more important applications of electricity, such as motive power, including elevators, hoists and machine drive, telephony, telegraphy, electro-metallurgy, etc. One hour a week. Assistant Professor BETTS.

24. Advanced Laboratory Work for Seniors in the Electrical Engineering Course. Covers test and experimental work with direct and alternating currents, tests of machines, circuits, transformers, circuits containing inductance and capacity, measurement of power in alternating current circuits, plotting of curves, etc. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering," with Foster's Electrical Engineer's Hand-book for general reference. Six hours a week. Assistant Professor BETTS, Mr. MORTIMER.

25. Inspection of Plants and Industrial Works. In the vicinity of Washington and Baltimore are a number of modern electric lighting and street railway plants, telephone exchanges, telegraph operating rooms, Government laboratories devoted to special work, etc., which afford students of Electrical Engineering an opportunity to familiarize themselves with nearly all types of apparatus in use. The visits are followed by class discussion based on written descriptions submitted by the students.

26. Electric Lighting and Illumination. A course for Seniors in Electrical Engineering covering the subject of electric lighting and

illumination, including detailed study of different types of lamps, shades, arrangement of light sources, effect of walls, etc. Two hours per week first term. Assistant Professor BETTS.

27. Electric Railways. A course for Seniors in Electrical Engineering covering the theory and practice of modern, direct and alternating current railways. Two hours a week second term. Assistant Professor BETTS.

Juniors and Seniors in Electrical Engineering are required to attend the monthly meetings of the Washington Branch of the American Institute of Electrical Engineers held at the University.

Third Section. Primarily for Graduates.

41. Advanced Dynamo Design. This comprises the more rigid calculation of the magnetic circuit, the estimation of the electrical and mechanical losses, together with an exposition of the elements of mechanical design. Assistant Professor BETTS, Mr. MORTIMER.

42. Advanced Course in the Mathematical Theory of Alternating Currents. Assistant Professor BETTS, Mr. MORTIMER.

43. Advanced Course in Polyphase Currents. Assistant Professor BETTS, Mr. MORTIMER.

44. Advanced Laboratory Work, Alternating (including Polyphase) Current Apparatus. Assistant Professor BETTS. Mr. MORTIMER.

ENGLISH.

WILLIAM ALLEN WILBUR, A.M.....*Professor*
DEWITT C. CROISSANT, A.B.....*Assistant Professor*
HARRIETT STRATTON ELLIS, A.B.....*Instructor*

First Section. Primarily for Undergraduates.

1. Rhetoric. A study of the principles of self-expression in writing and speaking in three phases, in the science of rhetoric, in English literature, and in composition. *Tu., Th., Sat.,* at 10. Professor WILBUR.

2. Rhetoric. Parallel with Course 1. *Mon., Wed., Fri.,* at 4.50. Professor WILBUR.

NOTE.—Credit for Course 1 or 2 is requisite for admission to any other course in English.

3. Prose. The history of prose to Robert Louis Stevenson, with special reference to the development of form. Lectures and reading. *Mon., Wed., Fri.,* at 9.00. Assistant Professor CROISSANT.

5. American Literature. Lectures on the development of the literature. Students taking this course are required to do wide reading, which is discussed by the class. *Tu., Th.,* at 5.40. Assistant Professor CROISSANT.

6. English Literature. An historical development, with the design of giving a general view and emphasizing the art motive together with the various foreign influences that enter into the formation of the literature. *Tu., Th.,* at 11.00. Miss ELLIS.

Second Section. For Undergraduates and Graduates.

22. Shakespeare. The Comedies. Given in 1908-09. Not given in 1907-08. *Mon., Wed., Fri.,* at 1.30. Professor WILBUR.

23. Shakespeare. The Tragedies. Given in 1907-08. Not given in 1908-09. Professor WILBUR.

The Temple edition of Shakespeare is recommended.

26. English Romanticism. The history of the Romantic movement in England with studies in the literature. The course may be taken only in conjunction with French 26. Given in 1907-08. Not given in 1908-09. Professor WILBUR.

28. Old English. A beginners' course; the essentials of the grammar and readings from Old English texts. Bright's Reader. (Advanced work may be arranged for competent students.) *Tu., Th.,* at 2.30. Assistant Professor CROISSANT.

30. Middle English. Grammar and Reading. Courses 28 and 30 may not be taken the same year. Emerson, Middle English Reader. (Advanced work may be arranged for competent students.) *Tu., Th.,* at 3.30. Assistant Professor CROISSANT.

32. Elements of Literary Criticism. Lectures on the general principles of literature, and on the literary types. Discussion of examples. *Tu., Th.,* at 4.50. Assistant Professor CROISSANT.

33. Poetry. The development of poetry from the age of Elizabeth to the present. Lectures and readings. *Mon., Wed., Fri.,* at 10.00. Assistant Professor CROISSANT.

Third Section. Primarily for Graduates.

40. History of the English Language. Development of the sounds and inflections with some reference to the other Germanic dialects. A reading knowledge of German and previous study of Old and Middle English are prerequisite. Assistant Professor CROISSANT.

44. Seminary in English Literature. Subject in 1907-08: The Poetry of Tennyson. Subject in 1908-09: The Short Story. *Tu.,* 4.50-6.30. Professor WILBUR.

FRENCH.

(See statement under Romance Languages and Literatures.)

GEOLOGY AND MINERALOGY.

GEORGE P. MERRILL, Ph.D. ..... *Professor*
TIMOTHY W. STANTON, Ph.D. ..... *Assistant Professor*
R. S. BASSLER, Ph.D. ..... *Assistant Professor*

First Section. Primarily for Undergraduates.

1. Mineralogy. Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. *Tu., Th.,* at 5.40.

2. Geology. Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-books: Scott's Introduction to Geology; Merrill's Rocks, Rock Weathering and Soils. *Mon., Fri.,* at 5.40.

Second Section. For Undergraduates and Graduates.

20. Economic Geology. The course consists largely of lectures upon the subjects comprised under: (1) Mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony etc.; and (3) the non-metallic minerals as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones, limes, cements, and mineral waters. Text-books: Ries' Economic Geology of the United States; Merrill's Stones for Building and Decoration and the Non-metallic Minerals. *Mon., Fri.,* at 4.50.

21. Paleontology. A course in lecture and laboratory work on the biological and geological relations of the more important types of animals and plants, with especial reference to their value in stratigraphic geology. Two hours.

Third Section. Primarily for Graduates.

Advanced study in Geology, both systematic and applied, is arranged to cover two years.

40. Advanced Geology and Paleontology. The student in this first-year course may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject.

41. Advanced Paleontology and Stratigraphic Geology. A continuation of Course 21. Besides the study of paleontological methods, the

student is expected to pursue some special line of investigation in order to fit himself for original research.

GERMANIC LANGUAGES AND LITERATURES.

HERMANN SCHOENFELD, Ph.D., LL.D.....*Professor*
A. F. W. SCHMIDT, A.M.....*Assistant Professor*
WILLIAM B. SCHULZ, A.B.....*Instructor*

First Section. Primarily for Undergraduates.

1. Elementary. The essentials of German grammar; translation of prose and poetry; composition and dictation. This course is open only to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. *Tu., Th., Sat.,* at 9. Assistant Professor SCHMIDT.

2. Parallel with Course 1. *Tu., Th., Sat.,* at 4.50. Mr. SCHULZ.

3. Selected texts from the foremost contemporary authors will be read and one or more of the German classics carefully studied. The work in grammar and composition done in elementary German will be continued on a more advanced plane, with special emphasis on syntax, word-formation, and the relationship of German and English. This course is equivalent to the advanced German of the admission requirements, and it is open only to students who have passed course 1 or 2, or have satisfied the admission requirement in elementary German. *Mon., Wed., Fri.,* at 11. Assistant Professor SCHMIDT.

4. Parallel with Course 3. *Mon., Wed., Fri.,* at 5.40. Assistant Professor SCHMIDT.

4a. Parallel with Course 4, but planned primarily for the students of the Washington College of Engineering. *Tu., Th., Sat.,* at 5.40. Mr. SCHULZ.

5. Advanced course in German syntax; principal difficulties of the language; idioms; synonyms; extensive translations of the best English prosaists into German; essays; selected advanced prose; classical reading and literature; German history. Special training for advanced students in the historical and economic departments. Open to students who have passed Course 3 or have satisfied the admission requirement in advanced German. *Mon., Wed., Fri.,* at 1.30. Professor SCHOENFELD.

6. Parallel with Course 5. *Mon., Fri.,* at 4.50. Mr. SCHULZ.

Second Section. For Undergraduates and Graduates.

20. German Literature in the first half of the nineteenth century; its social and political aspects; special study of Kleist, Uhland, Heine; the Romantic School; classicism till Goethe's death; essays, lectures, and collateral reading. *Tu., Th.,* at 10. Professor SCHOENFELD.

21. German Literature of the Classic Period at its zenith; Goethe's and Winckelmann's influence on German art; Modern German drama; Hebbel, Ludwig, Freytag, Heyse, Sudermann, Fulda, Hauptmann. *Mon., Wed., Fri.,* at 10. Professor SCHOENFELD.

The intervening periods of Modern German Literature will be studied during the subsequent academic year.

27. Advanced grammar and composition. This course is designed for students who intend to teach German. 2 hrs. Assistant Professor SCHMIDT.

Third Section. Primarily for Graduates.

40. German Literature in the sixteenth century. Braune's Neudrucke Deutscher Literaturwerke. Humanism and Reformation, with special reference to Italian and French influences and their historical basis. Original readings from the Humanists, Hans Sachs, Fischart, and Luther's works. The reformatory projects of Cardinal Nicolaus Cusanus and of Erasmus, Hutten, and Reuchlin. Professor SCHOENFELD.

41. German Literature in the twelfth and thirteenth centuries, with special regard to the Nibelungen lay, the Gudrun saga, Wolfram von Eschenbach. The lyrics of Walther von der Vogelweide. The grammatical aspects of the classics of the first period of bloom. Professor SCHOENFELD.

The other phases of older German literature and philology will be studied in subsequent years, so that the general range of the history of German Literature may be covered every three years.

45. The emerging of the Germanic, Romance, and Slavic races in European History. The Migration of Peoples. The Evolution of European States to the rise of the Hapsburg House. Cultural elements influencing the three predominating races of Europe. (Selections from the historical sources are read and interpreted.) Professor SCHOENFELD.

46. The Annihilation and Reconstruction of Prussia (Historical and literary sources will be searched). The Building up of the Modern German Empire (Archival studies, literary, social forces, Bismarck's literary work.) Professor SCHOENFELD.

47. Gothic. Introduction to comparative Indo-European grammar. Braune's Gotische Grammatik and Streitberg's Urgermanische Grammatik. 2 hrs. Assistant Professor SCHMIDT.

48. Old High German. The development of the German language. Braune's Althochdeutsche Grammatik and Braune's Althochdeutsches Lesebuch. Given in 1908-1909. 2 hrs. Assistant Professor SCHMIDT.

49. Old Norse. The Eddas. 2 hrs. Assistant Professor SCHMIDT.

Courses 48 and 49 will be given in alternate years.

For notice of the Richard Heinzel Germanic library, see page 19.

GRAPHICS.

EDWIN V. DUNSTAN, C.E.....*Assistant Professor*
F. CHARLES STARR, B.S.....*Instructor*
JULIAN C. SMALLWOOD, M.E.....*Instructor*

First Section. Primarily for Undergraduates.

1. Mechanical and Freehand Drawing. A general course embracing the care and use of instruments; orthographic and isometric projections; sections and intersections; curve plotting; sketching of simple machine details; freehand lettering; principles of working drawings. Six hours a week in the drawing-room. Mr. STARR.

2. Advanced Mechanical Drawing. A course in working drawings especially designed for Electrical and Mechanical Engineering students. Drawing-room rules and practice; conventional forms and standards; arrangement of views and sections; freehand shop-sketches; detailing from sketches, models and general drawings; proportioning by empirical formulæ. Every effort is made to develop distinctness in delineation, accuracy in dimensions and professional style and finish in each drawing. Six hours a week in the drawing-room. Mr. SMALLWOOD.

8. Descriptive Geometry. A study of the representation of lines, surfaces, and solids, and of their relations; tangencies, intersections, and developments; warped surfaces; shades and shadows; original construction problems. Two lectures and one drawing period per week. Mr. STARR.

10. Topographic Drawing. A general course in plotting, topographic symbols, and lettering to accompany the work in surveying. One drawing period per week. Mr. STARR.

Second Section. For Undergraduates and Graduates.

20. Graphic Statics. Principles and methods, including the construction and use of the force and equilibrium polygons; dead, live, snow, and wind loads; the graphic analysis of beams, girders, roof, and bridge trusses. Two lectures and one design period per week. Assistant Professor DUNSTAN.

Third Section. Primarily for Graduates.

40. Advanced Graphic Statics. A study of the graphical analysis of higher structures, with special reference to the method of influence lines. Assistant Professor DUNSTAN.

GREEK.

(See statement under Classical Languages and Literatures.)

HISTORY.

CHARLES CLINTON SWISHER, Ph.D., LL.D.....*Professor*
WILLIAM RAY MANNING, Ph.D.....*Assistant Professor*
JAMES FREDERICK PEAKE, A.M.....*Assistant Professor*
GEORGE MORTON CHURCHILL, A.M.....*Instructor*
HANS FRED'K ARTHUR SCHOENFELD, A.B.....*Assistant*
WILLIAM HAMILTON, Ph.D.....*Lecturer*

First Section. Primarily for Undergraduates.

1. Mediæval History. The conditions of ancient civilization that have been most potent in their influence upon later times; the migration and settlement of the Germanic tribes in the territory of the Empire; and the gradual blending of Roman and Teutonic institutions into the modern state. *Mon., Wed., Fri.,* at 2.30. Assistant Professor PEAKE.

2. Modern European History. A general survey of the history of Europe from the close of the Middle Ages to the present, with special attention to the Reformation, the French Revolution, and the resulting conditions in government on the continent. *Mon., Wed., Fri.,* at 3.30. Assistant Professor PEAKE.

3a. English History, from the Roman Conquest to the end of the Tudor period, with emphasis on the growth of the idea of nationality and the origin and formation of the Constitution. Text-books, lectures, and readings from the sources. First half-year. *Mon., Wed., Fri.,* at 4.50. Assistant Professor PEAKE.

3b. English History, from the accession of James I to the present time with special study of the progress of parliamentary government and incidental consideration of the colonial policy of England and the industrial revolution of the eighteenth century. Text-books, lectures, and collateral reading. Second half-year. *Mon., Wed., Fri.,* at 4.50. Assistant Professor PEAKE.

4. American Political History. A general survey of the whole field of American history, designed as a preparation for more highly specialized work, and for students who have only a limited time to devote to the subject. Lectures, text-books, and reports on assigned readings. *Tu., Th.,* at 5.40. Professor SWISHER and Mr. CHURCHILL.

Second Section. For Undergraduates and Graduates.

20. Ancient History. The Eastern nations and Greece to the period of the Roman Conquest. *Mon., Fri.,* at 10. Mr. SCHOENFELD.

21. Roman History. The political history of Rome from the establishment of the Republic to the time of Constantine the Great. Two hours. In alternate years. Not given in 1908-09. Mr. SCHOENFELD.

22a. History of Mediæval Institutions. The principal institutions of the Middle Ages with special reference to Feudalism, the struggle between Empire and Papacy, and the resulting conditions in civilization and government. First half-year. *Tu., Th.,* at 11, and a third hour at the pleasure of the instructor. Assistant Professor PEAKE.

22b. The Renaissance and the Reformation. The Revival of classical learning and the factors and consequences of the Protestant Revolution. Second half-year. *Tu., Th.,* at 11, and a third hour at the pleasure of the instructor. Assistant Professor PEAKE.

23a. European History, 1814 to 1850. A review of the French Revolution and the career of Napoleon, followed by a study of the conflict between reaction and revolution and of the rise of the spirit of nationality, to the suppression of revolutionary movements at the middle of the century. This course should be preceded by History 1 and 2 or an quivalent. Three hours, first half-year. Assistant Professor MANNING.

23b. European History since 1850. A continuation of 23a, discussing the unification of Italy, the foundation of the German Empire, the interference of the western powers to check Russia's advance on Constantinople, and political development of Europe to the present day. Three hours, second half-year. Assistant Professor MANNING.

24. English Constitutional History. A study of the English constitution from its origin to the present day. This course should be preceded by History 3a and 3b or an equivalent. Three hours, throughout the year. Assistant Professor MANNING.

25. History of European Colonization. A review of earlier colonial activity followed by a detailed study of the spread of European civilization and domination during the nineteenth century, and of the growth of the great colonial empires in Africa, Asia, and Australasia. This course should be preceded by History 1 and 2 or an equivalent. Three hours, first half-year. Given in 1907-08. Not given in 1908-09. Assistant Professor MANNING.

26. Russia and the Eastern Question, in the Nineteenth Century. The earlier phases of the contact between the peoples of Asia and Europe; Russia during the last century; the relations between Russia and Turkey; European intervention to prevent Russia from absorbing Turkish dominions. Should be preceded by History 1 and 2 or an equivalent. Three hours, second half-year. Given in 1907-08. Not given in 1908-09. Assistant Professor Manning.

27. Spain as a World Power. The unification of Spain; her expansion under Charles V and Philip V and her decay; her humiliation by Napoleon; the collapse of her colonial dominion. Should be preceded by History 1 and 2. Assistant Professor MANNING.

28. American Colonial History. The period of discovery and early settlement. A comparative study of French, Spanish, and English colonial development extending through the Conquest of New France. The first half-year will be devoted to the period 1492 to 1620; the second to the period 1620 to 1763. *Tu., Th.,* at 2.30. Professor SWISHER.

29. American Constitutional History. 1775-1804. The history of the evolution and development of the Federal Constitution from the meeting of the Second Continental Congress to the fall of the Federalist party. Lectures and reports upon assigned reading. Two hours, given in alternate years. Given in 1908-09. *Tu., Th.,* at 1.30. Professor SWISHER.

30. American Constitutional History. The history of Constitutional interpretation from the Case of Marbury *vs.* Madison, to the Dred Scott Decision. A research course based on collateral readings from the speeches and writings of statesmen and jurists, and the decisions of the Supreme Court. Not given in 1908-09. *Tu., Th.,* at 1.30. Professor SWISHER.

31. American History since the Civil War. A general survey of the Civil War followed by a more detailed study of the conditions resulting therefrom up to the close of the nineteenth century. The first term covers the period 1860 to 1865; the second the period 1865 to 1900. *Tu., Th.,* at 4.50. Mr. CHURCHILL, and Dr. HAMILTON.

32. History of Party Government. The rise and development of the party system and the influence of party leaders and party issues in the United States, based on a study of political platforms and campaign literature. The first term covers the period 1789 to 1860; the second, 1860 to 1904. *Mon., Fri.,* at 5.40. Professor SWISHER and Mr. CHURCHILL.

33. Current History. Political questions of to-day with special reference to their origin and historical significance. *Wed.,* at 11. Professor SWISHER.

Third Section. Primarily for Graduates.

40. Europe and the French Revolution. The diplomatic relations between the European states occasioned by the French Revolution, based principally on the memoirs and correspondence of the diplomats of the period. Assistant Professor MANNING.

41. The War of Liberation and the European Congresses following. A study mainly diplomatic of the last European coalition against France, of the overthrow of Napoleon, and of the ensuing European congresses, based principally on the memoirs and correspondence of the diplomats of the period. Assistant Professor MANNING.

42. France from 1789 to 1848. The constitutional development of France from the meeting of the States General to the Second Empire. Assistant Professor PEAKE.

43. English History from 1783 to 1884. The reform movement in England from the close of the American Revolution through the second ministry of Gladstone. Not given in 1908-09. Professor SWISHER and Assistant Professor PEAKE.

44. American History from 1789 to 1815. A study of the policy and party methods of the Federalists. Professor SWISHER and Dr. HAMILTON.

45. Constitutional History from 1861 to 1876. Constitutional interpretation during the Civil War and the period of Reconstruction. Not given in 1908-09. Professor SWISHER and Dr. HAMILTON.

46. Historiography. A general survey of the materials of history with special reference to the presentation and treatment of historical evidence, including comparative analysis of selections from historical literature. Designed to assist students in investigation and research. Not given in 1908-09. Professor SWISHER.

47. Seminary in American History. A limited number of advanced students who plan to specialize in American history will form a group for the weekly presentation and discussion of original essays, under the direction of the instructors in this department.

48. Seminary in European History. Organized similarly to the seminary in American history, for the study of topics in European history.

HYDRAULIC ENGINEERING.

HENRY L. ABBOT, LL.D. ..... *Professor*

Third Section. Primarily for Graduates.

40. Laws of flowing water, in natural channels, in pipes, and over weirs, with modes of measurement. Underground flow as sources of supply, with modes of estimation. Relation of rainfall to run-off. Regulation of river flow for purposes of navigation, and for protection against inundation. Slack-water navigation, including dams, canal locks, and waste weirs. Earth dams and river embankments, theory and modes of construction. Effect of forests upon water supply.

INTERNATIONAL LAW AND DIPLOMACY.

JAMES BROWN SCOTT, Ph.D., J.U.D. ..... *Professor*
DAVID J. BREWER, LL.D. ..... *Lecturer*
JOHN W. FOSTER, LL.D. ..... *Lecturer*
JOHN BALL OSBORNE, A.M. ..... *Lecturer*
ELLERY C. STOWELL, A.B., LL.B. ..... *Instructor*

NOTE.—Advanced and special courses in International Law and Diplomacy are offered in the College of the Political Sciences, concerning which a special announcement is in course of preparation.

First Section. Primarily for Undergraduates.

1. The Elements of Diplomacy. A study of the genesis and organization of the Department of State; the diplomatic service; diplomatic usage; the treaty-making power; methods and traditional principles of our foreign policy. Three hours, first half-year. Mr. STOWELL.

2. Arbitration. The rise and growth of the principles of arbitration in the settlement and prevention of international disputes. One hour, second half-year. Mr. JUSTICE BREWER.

Second Section. For Undergraduates and Graduates.

20. History of American Diplomacy to 1861. An historical review of the foreign relations and the principal diplomatic controversies of the United States from the foundation of the federal government to the Civil War; and the elevation of the United States to the rank of a world power. Two hours, first half-year. *Mon., Fri.,* at 2.30. Professor SWISHER.

21. History of American Diplomacy, since 1861. A continuation of Course 20, down to the present time. Two hours, second half-year. *Mon., Fri.,* at 2.30. Professor SWISHER.

22. History of European Diplomacy 1648 to 1814. After a few introductory lectures reviewing earlier diplomatic intercourse, the international relations of European countries from the Peace of Westphalia to the overthrow of Napoleon are studied, especial attention being paid to the international settlements of 1648, 1713, 1756, and the great coalitions of the European states against the French Revolution and Napoleon. Lectures, with readings, investigations, and reports by students. History 3 and 4, or an equivalent, should precede this course. Three hours, first half-year. Assistant Professor MANNING.

23. History of European Diplomacy since 1814. A continuation of the preceding course. Especial attention is given to the numerous European congresses called to superintend the restoration and preservation of "legitimate" governments after the fall of Napoleon; to the concert of the European Powers in the Eastern Question; to the new international relations occasioned by the national movements, especially in Germany and Italy; and to the various congresses for the consideration of humanitarian measures. Three hours, second half-year. Assistant Professor MANNING.

24. International Law. A detailed course in the nature, sources and sanctions of international law, presented through lectures, assigned

readings, reference to cases, and reports. Three hours. Professor Scott.

25. The Consular Service. The rise, development, and organization of the Consular Service; the conventions, rights, duties, and methods of procedure of consular officers. Two hours, second half-year. Mr. Osborne.

Third Section. Primarily for Graduates.

40. Origin and Development of International Law, with particular reference to writers of authority. The subject of this course will be a detailed study of *Grotius* "De Jure Belli ac Pacis," with special attention to its origin and influence upon subsequent schools of thought. Second half-year. Professor Scott.

41. International Conferences. The Hague Conferences: The nature and purpose of the conferences; their methods of procedure, a critical examination and study of the texts adopted in 1899 and 1907. One hour, second half-year. Professor Scott.

42. Seminary in International Law. A careful and detailed study of the texts of the conventions and resolutions of international conferences, with due regard to their origin and the modification and development of international law. For a limited number of students. Professor Scott.

ITALIAN.

(See statement under Romance Languages and Literatures.)

LATIN.

(See statement under Classical Languages and Literatures.)

MATHEMATICS.

James Howard Gore. Ph.D.....*Professor*
Paul Noble Peck. A.M.....*Assistant Professor*
Louis Cohen, B.S.....*Assistant Professor*
George Albert Ross, A.M.....*Instructor*

First Section. Primarily for Undergraduates.

2. Plane and Solid Geometry: Gore's Plane and Solid Geometry; *Tu., Th.,* at 5.40. Assistant Professor Peck.

3. Solid Geometry; Gore's Plane and Solid Geometry. *Mon., Wed., Fri.,* at 9, October and November. Assistant Professor Peck.

4. Algebra: Ashton and Marsh College Algebra. *Mon., Wed.,* at 4.50. Assistant Professor Peck.

5. Algebra: Ashton and Marsh College Algebra. *Mon., Wed., Fri.,* at 9, December to March. Assistant Professor Peck.

6. Solid Geometry: Gore's Plane and Solid Geometry. *Tu., Th., Sat.*, at 4.50, October and November. Assistant Professor PECK.

7. Plane Trigonometry: Gore's Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 9, April and May. Assistant Professor PECK.

8. Algebra: Ashton and Marsh College Algebra. *Tu., Th., Sat.*, at 4.50, December to March. Assistant Professor PECK.

9. Trigonometry: Gore's Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 11, October to December. Professor GORE.

10. Plane Trigonometry. Gore's Plane and Spherical Trigonometry. *Tu., Th., Sat.*, at 4.50, April and May. Assistant Professor PECK.

11. Analytic Geometry: Nichols' Analytic Geometry. *Mon., Wed., Fri.*, at 11, January to May. Professor GORE.

12. Trigonometry: Gore's Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 5.40, October to December. Assistant Professor PECK and Mr. Ross.

14. Analytic Geometry: Plane and Solid; Nichols' Analytic Geometry. *Mon., Wed., Fri.*, at 5.40, January to May. Assistant Professor PECK and Mr. Ross.

NOTE.—Courses 2 and 4 are intended for students who desire to review some parts of elementary algebra and plane geometry, in order to obtain that thorough and ready knowledge of these fundamental mathematical studies that is necessary for their proper use in other subjects. These classes are not intended for beginners. and only students who have studied elementary algebra and plane geometry are admitted.

Courses 3, 5, and 7 are designed to occupy one year; likewise Courses 2 and 4.

Second Section. For Undergraduates and Graduates.

20. Differential and Integral Calculus: Taylor. *Mon., Wed., Fri.*, at 4.50, for six months. Professor GORE and Mr. Ross.

21. Differential and Integral Calculus: Taylor. *Mon., Wed., Fri.*, at 9, for six months. Professor GORE and Mr. Ross.

22. Differential Equations: Osborne. *Mon., Wed., Fri.*, at 4.50, April and May. Professor GORE and Mr. Ross.

23. Differential Equations: Osborne. *Mon., Wed., Fri.*, at 9. Professor GORE and Mr. Ross.

In all the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution a large number of problems taken from the best European and American authorities.

While the disciplinary value of the study of mathematics is never lost sight of, the importance of its practical application is insisted upon.

Third Section. Primarily for Graduates.

41. Theory of the Complex Variable. Lectures with reference to Durege and Forsyth. Professor GORE. Not given in 1908-1909.

43. Differential Equations. Cohen's Differential Equations. Professor GORE. Not given in 1908-1909.

45. Elliptic Functions. Lectures with reference to Cayley, Tannery and Molk, and Koenigsberger. Professor GORE.

47. Thermodynamics and Fourier's Series. Assistant Professor COHEN.

MECHANICAL ENGINEERING.

ARTHUR CUTTS WILLARD, B.S. ..... *Assistant Professor*
PHILANDER BETTS, E.E. ..... *Assistant Professor*
JULIAN C. SMALLWOOD, M.E. ..... *Instructor*
CHARLES W. MORTIMER, M.E. ..... *Instructor*

First Section. Primarily for Undergraduates.

1. Mechanism. A course in the systematic study of the kinematics of machinery, in which mechanical movements are reduced to scientific analysis. Carefully developed problems and diagrams of changes of position and speed in mechanisms are constantly used.

Some attention is given to the design of gear teeth, and valve gears for steam engines, and to the necessary theory for such design. Two lecture-recitation hours and two drawing hours per week during the Sophomore year. Mr. SMALLWOOD.

4. Woodwork. This course is intended to provide the student with a knowledge of the principles involved, rather than manual dexterity in such work, which can only be secured by prolonged practice.

The work includes: (1) Exercises in planing, sawing, mortising, joining, framing, and other work involving the common carpenters tools; (2) exercises involving the use of power machinery, circular saws, planer, scroll saw, lathe, etc.; (3) exercises in pattern making, including patterns and core-boxes for various machine parts; (4) study of moulding, casting, and foundry operation. Four hours per week in the shops during the Sophomore year. Mr. SMALLWOOD.

5. Metal Work. This course is intended to illustrate, by practical work, the methods and principles underlying the best modern practice.

The work includes: (1) Exercises in forging, heating, bending, welding, annealing, hardening, tempering, etc., including toolmaking; (2) exercises in vise-work, including chipping, filing, scraping, polishing, etc.; (3) exercises in machine work in metals, including turning, planing, boring, grinding, etc. Six laboratory hours per week during the Junior year. Electrical Engineering students are given a modified course of three hours per week. Mr. SMALLWOOD.

6. Enginering Drawing. This course provides for the application of the principles taught in the courses of Mechanism and Steam Engineering to specific problems. Practice is given in the design of valve gears and quick return motions, and in the determination of velocity diagrams for special engine and other linkages. There is also included the complete working drawings for a steam boiler. Six drawing hours per week during the Junior year. Assistant Professor WILLARD, Mr. SMALLWOOD.

7. Machine Design. This course is an application of principles already acquired to problems in design, each student being required to complete every detail of the design undertaken.

The subjects taken as design problems are: The design of a boiler; permanent and temporary fastenings for machine parts; a crank; a large shaft with pulley and gear wheels, rotating and sliding pieces, etc. The constructive details and calculations are discussed and the limitations of theoretical and empirical formulæ pointed out. Results are made to conform with experience and the best practice. One lecture-recitation hour and three drawing hours per week during the Senior year. Assistant Professor WILLARD.

9. Engineering Laboratory. A course of practical work in testing general engineering apparatus for efficiency. The work consists in indicating steam engines; determining the evaporative efficiency of boilers; tests on the strength of materials; measurement of the flow of water; gas engine brake tests; refrigeration tests; and fuel value determinations. The student's observations and computations on any test are critically compared with those of the instructor. Six laboratory hours per week for the last half of the Junior year. Assistant Professor WILLARD, Assistant Professor BETTS, Mr. SMALLWOOD, Mr. MORTIMER.

10. Engineering Laboratory. This course is a completion of Course 9. Six hours a week during the Senior year. Assistant Professor WILLARD, Assistant Professor BETTS, Mr. SMALLWOOD.

12. Elements of Steam Engineering. A course designed for the needs of Civil Engineering students. It deals briefly with valve gears, power plant accessories, thermodynamics, steam engines, steam pumps, and steam boilers. Two lecture-recitation hours per week during the Senior year. Mr. SMALLWOOD.

Second Section. For Undergraduates and Graduates.

20. Steam Engineering. The first half year of the course deals with the principles of Thermodynamics; the properties of gases and vapors, especially steam; the flow of steam and other fluids, and the steam injector. The application of the above principles is discussed, and the simple, compound, and multiple expansion steam engines are studied.

The last half year of the course is devoted to the study of steam boilers and power plants, and their accessories. A design, with plans and specifications, for a power plant of industrial proportions is required from each student. Three lecture-recitation hours per week during the Junior year. Assistant Professor WILLARD.

22. Internal Combustion Motors. This course will deal with the theory, design, and practice concerning gas, gasoline, and other engines.

The work will include: (1) The fuels employed, their energy content, and its conversion into mechanical work; (2) the cycle of operations of the heat medium, with details of method of transforming heat into work, and types of motor; (3) the practical details of operation, mixing the charge, carburation, ignition, and governing; (4) the manipulation and practice, and a discussion of economy and performance from tests. The design of some simple type of motor will be completely worked out and discussed. Three lecture-recitation hours per week for the first half of the Senior year. Assistant Professor WILLARD.

23. Hydraulic Machinery. This course provides for an elementary study of hydraulic prime movers and pumping machinery. It includes a discussion of the theory and design of turbines and turbine blades for low and high heads, and turbine governors.

The course will also treat of impulse wheels; water motors of the piston type; machinery for the utilization of hydraulic pressure; hydraulic pressure pumps, and hydraulic presses; hydraulic tools; pumps operated by steam, electricity, or power; and high duty pumps and water meters. Two lecture-recitation hours per week for the first half of the Senior year. Mr. SMALLWOOD.

24. Technical Machinery. This course is intended to provide the engineering student with a knowledge of the method of operation of various types of technical machinery and the essential accessories of the same.

The fundamental features of each type will be discussed, the best practical example of each being used as a basis. In this way a correct conception of the proper manipulation and operation of such machinery will be secured. One lecture hour per week for the first half of the Senior year. Assistant Professor WILLARD.

25. Compression and Refrigeration Machinery. A course in which the principles of thermodynamics are applied to the commercial methods of compressing air and securing artificial refrigeration. The work will also include the mechanical principles concerned in the design of air compressors as well as the transmission of air in high pressure piping.

The relative advantages of refrigeration systems will be discussed, as brought out in the theory and practice of actual machines using ammonia, air, and other gases, and fluids. Three lecture-recitation

hours per week in the last half of the Senior year. Assistant Professor WILLARD.

28. Industrial Management. A course dealing with the business systems of manufacturing establishments.

The work includes a study of the organization and relations of the various departments of an industrial establishment, both in the office and in the workshop. It also discusses the conduct of accounts, the methods of superintendence and of compensating labor, the determination of the costs of production, and the effect on costs of different systems of distributing indirect expenses. One lecture-recitation hour per week for the last half of the Senior year. Assistant Professor WILLARD.

Third Section. Primarily for Graduates.

40. Advanced Gas-Engine Design, a short lecture course on multicylinder engines. Assistant Professor WILLARD.

41. Advanced Mechanical Engineering Laboratory, with fuel determinations, heat measurements, and gas analysis work. Assistant Professor WILLARD.

42. Advanced theory of governors, planimeters, and dynamometers for Steam Engineering. Assistant Professor WILLARD.

43. Advanced Engineering Drawing. Special problems. Assistant Professor WILLARD.

METEOROLOGY.

CLEVELAND ABBE, A.M., LL.D.....*Professor*

Third Section. Primarily for Graduates.

40. Experimental and Laboratory Work in Meteorology. The theories of instruments and the laws of atmospheric phenomena, so far as they are susceptible of elucidation by laboratory experiment.

41. Practical Meteorology. Cartography; daily weather charts; methods of predicting the weather for a few days; long-range predictions for seasons, methods of verification; the climates of past geological ages; the methods of reduction and publication.

42. Physical and Theoretical Meteorology. The present state of our knowledge of atmospheric phenomena as problems in thermodynamics and hydrodynamics, culminating in Bjerknes' treatment of the atmosphere as a field of force. An extensive course of reading and private study is marked out for the pupil, and his thesis for the degree of Ph.D. must be in the field of physical meteorology.

PHILOSOPHY.

JAMES MACBRIDE STERRETT, A.M., D.D.....*Professor*
GEORGE LANSING RAYMOND, L.H.D.....*Professor of Æsthetics*
WILLIAM T. HARRIS, LL.D.....*Lecturer*
EDWARD ELLIOTT RICHARDSON, Ph.D.....*Instructor*

First Section. Primarily for Undergraduates.

1. The History of Philosophy: Ancient Philosophy, first term; Modern Philosophy, second term. Text-book with lectures and required readings. This will be made an historical introduction to philosophy proper. It will aim to give the student an intelligent conception of the nature of philosophy and of its chief problems, opening up the discussion of atheism, pantheism, theism, idealism, materialism, agnosticism, pessimism and optimism. *Wed., Fri.,* at 9. Dr. RICHARDSON.

2. Introduction to Ethics. Text-book: Mackenzie's *Manual of Ethics. Mon.,* at 9. Dr. RICHARDSON.

3. Formal Logic and the methods of the inductive sciences. Text-book: Minto's *Logic, Inductive and Deductive.* Not given in 1908-09.

Second Section. For Undergraduates and Graduates.

20. Greek Ethics. This course covers a critical study and exposition of a number of Plato's Dialogues—*the Crito, Protagoras, Gorgias, the Republic,* bks. II-IV, with selections from other dialogues and Aristotle's *Ethics,* bks. I-IV and X. First half-year. *Mon., Wed.,* at 10. Professor STERRETT.

21. Christian Ethics. An exposition of the fundamental postulates and the distinctive principles of Christian Ethics. Second half-year. *Mon., Wed.,* at 10. Professor STERRETT.

22. The Philosophy of Plato and Aristotle. The larger part of the year is given to the critical study of the chief dialectical dialogues of Plato, including the *Meno, Theatetus, Republic,* bks. V-VII, and X; the *Phædrus, Philebus, Phædo, Sophist, The Laws,* bk. X. The latter part of the year is given to the study of selections from Aristotle's *De Anima* and *Metaphysics.* Not given in 1908-09. Professor STERRETT.

23. The Philosophy of Kant. Lectures with the study of the text of Kant's *Critique of the Pure Reason.* Knowledge of German desirable. First half-year. *Tu., Th.,* at 10. Professor STERRETT.

24. The Philosophy of Hegel. A critical and expository study of Hegel's *Logik.* Second half-year. *Tu., Th.,* at 10. Profssor STERRETT.

25. Lecture course on the history of the great religions, followed by a genetic account of the development of religion on its subjective side. Prescribed readings and thesis. Not given in 1908-09. Professor STERRETT.

26. Æsthetics. Lectures on æsthetic theories, considered historically and philosophically, and their results as manifested in the different arts. First half-year. *Wed.,* at 4.50. Professor RAYMOND.

Third Section. Primarily for Graduates.

40. The Philosophy of Nature. Seminary course. The fundamental concepts of modern physical science; prescribed readings, reports, and a thesis. Professor STERRETT.

41. Metaphysics. The problems of Ontology, Cosmology, and Rational Psychology. Professor STERRETT.

42. The Ethical Theories of Kant and Hegel. A seminary course covering Kant's *Kritik der praktischen Vernunft* and Hegel's *Philosophie des Rechts.* Professor STERRETT.

43. The Philosophy of Religion. A lecture course with reports on prescribed readings and a thesis. Professor STERRETT.

44. The Philosophy of History. Seminary course. Conferences, prescribed readings and thesis. Dr. HARRIS.

45. Philosophy of History. Ten lectures with syllabus of readings. Professor HARRIS.

46. Æsthetics. Seminary course. Æsthetics, considered philosophically, historically, and practically. Conferences, prescribed readings, and thesis. Professor RAYMOND.

PHYSICS.

HOWARD L. HODGKINS, Ph.D.....*Professor*
EDWARD B. ROSA, Ph.D.....*Professor*
EDGAR BUCKINGHAM, Ph.D.....*Assistant Professor*
PERLEY G. NUTTING, Ph.D.....*Assistant Professor*
EVERETT W. VARNEY, A.B.....*Instructor*
CHARLES W. MORTIMER, M.E.....*Instructor*

First Section. Primarily for Undergraduates.

1. General Physics. A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experiments. This is a required course for Sophomores in Engineering, and may be elected by the general student who has had a college course in trigonometry. *Mon., Wed., Fri.,* at 4.50. Professor HODGKINS.

2. Laboratory Physics. A selected series of experiments, mainly quantitative. Two two-hour periods. *Tu., Th.,* at 10. Professor HODGKINS, Mr. VARNEY, and Mr. MORTIMER.

3. Introductory General Physics. A lecture and recitation course, similar to Course 1, but less mathematical, and planned with reference to the needs of the general student. *Mon., Wed., Fri.,* at 10. Professor HODGKINS.

Second Section. For Undergraduates and Graduates.

21. Heat. A lecture and laboratory course, based on Preston's Theory of Heat and Poynting and Thomson's Heat. Three periods. *Mon., Wed., Fri.,* at 11. Professor HODGKINS.

22. Light. A lecture and laboratory course, based on Preston's Theory of Light and Schuster's Theory of Optics. Three periods. *Mon., Wed., Fri.,* at 5.40. Professor HODGKINS.

Third Section. Primarily for Graduates.

40. Light. Advanced study, experimental and mathematical, of some one branch of the subject. Professor HODGKINS.

41. Absolute Electrical Measurements. A course of lectures on the theory and practice of fundamental electrical measurements, including the more important methods for the measurement of resistance in absolute units, the absolute measurement of current and electromotive force, the determination of the ratio of the two systems of electrical units, the theory of various forms of condensers, the calculation of inductances from their dimensions, the experimental determination of capacities and inductances, and other important problems in electrical measurements. A brief history of the present electrical units and an account of the classical investigations by which their values have been determined will also be given. Professor ROSA.

42. Advanced Laboratory Work in Electrical Measurements. A course in advanced laboratory work in electrical measurements, for those who are qualified to undertake it. This may include a considerable range of work, or it may be research work on some important single subject. The amount and character of the work and the time and place at which it shall be done will be determined for each case separately. Professor ROSA.

43. Thermodynamics. An introduction to the general principles of the subject will be followed by applications to Physics and Physical Chemistry. Students should be familiar with Preston's "Theory of Heat" up to Thermodynamics, or with its equivalent. The course will be conducted by lectures with collateral reading. Assistant Professor BUCKINGHAM.

44. Theory of Electricity. The course will be conducted by lectures with collateral reading in Maxwell, Heaviside and Gray. Students must have had at least two years' training in Calculus, and be

familiar with the ordinary phenomena of electrodynamics. Assistant Professor BUCKINGHAM.

45. Spectroscopy. An experimental study of the flame, arc, spark and vacuum tube spectra of the chemical elements; variations in spectra produced by varying excitation; spectra of mixed gases and alloys; identification of elements; photography of spectra. Assistant Professor NUTTING.

POLITICAL SCIENCE.

W. W. WILLOUGHBY, Ph.D.....*Professor*
HOWARD LEE MCBAIN, Ph.D.....*Instructor*

NOTE.—Advanced and special courses in Political Sciences are offered in the College of the Political Sciences, concerning which a separate announcement is in preparation.

First Section. Primarily for Undergraduates.

1a. The American Governmental System. An introductory course for the study of federal government in the United States, discussing the fundamental nature of the union and the relation of the national government to the States, territories, and outlying possessions. Three hours, first half-year. Dr. MCBAIN.

1b. Actual Government. A continuation of Course 1a, with emphasis upon the actual organization and operation of the national government. A study of Congress and the executive departments in action, and of the organization and control of political parties. Three hours, second half-year. Dr. MCBAIN.

Second Section. For Undergraduates and Graduates.

20. Principles of Political Science. The nature of the State and the different types of political life. The fundamental political concepts, such as sovereignty, suzerainty, government, law, etc. Centralized States; federal States; confederacies; personal and real unions; protected, guaranteed, and administered States; colonies; spheres of influence; etc. Two hours, first half-year. Professor WILLOUGHBY.

21. Comparative Constitutional Law. An investigation of the governmental forms and the more difficult points in the systems of constitutional jurisprudence of the leading nations. Especial attention is devoted to those States which illustrate the federal form of political organization—Germany, Switzerland, Canada, and Australia. Two hours, second half-year. Professor WILLOUGHBY.

22. State and Local Government in the United States. A study of the powers, organization, and operation of the State governments; a comparative view of the State constitutions; a study of American types of

local government, exclusive of the city. In alternate years; given in 1908-09. Three hours. First half-year. Dr. McBain.

23. Municipal Government in the United States. A study of the organization and administration of city government in the United States with some comparative study of European conditions. The growth of cities; development of the legal position of the city; powers and liabilities of municipal corporations; municipal problems, such as those relating to local transportation, police, light and water supply, charities, education, municipal ownership of public utilities. In alternate years; not given in 1908-09. Three hours. First half-year. Dr. McBain.

24. The Theory and Practice of Legislation. A study of the methods of procedure of legislative bodies—local, State, and national—and the preparation of the subject-matter and form of bills. The theory and practice of parliamentary law. In alternate years; given in 1908-09. Three hours, second half-year. Dr. McBain.

25. Private Rights and Immunities under the Constitution. An advanced study of cases showing the development of federal protection of private rights and immunities as against the powers of the States. Remedies against the powers of the States; limitations on the powers of the States to deprive a person of life and liberty, to define and regulate the uses of property, to impose taxes, to impair the obligation of contracts, etc. Two hours, second half-year. Dr. McBain.

26. American Constitutional Law. An outline of the principles of the Federal Constitution as established and developed by judicial interpretation. Two hours. Professor Harlan.

PREVENTIVE MEDICINE.

George M. Sternberg, M.D., LL.D.....*Professor*

Third Section. Primarily for Graduates.

40. Food preservatives in relation to the Public Health. The hygienic results of milk sterilization. The hygienic results of filtration of municipal water supplies. The use of chemical agents for the sterilization of water supplies, municipal or domestic. The results of legislative and philanthropic efforts to arrest the progress of tuberculosis in the United States, and especially in the principal cities.

PSYCHOLOGY.

Williston S. Hough, Ph.M.....*Professor*
Shepherd Ivory Franz, Ph.D.....*Professor*
William Carl Ruediger, Ph.D.....*Assistant Professor*

Course 1 or Course 2 must precede all other courses in Psychology. Students intending to pursue advanced courses in Psychology, or courses

in Education, are recommended to take Course 1 (or Course 2) in their Sophomore year.

First Section. Primarily for Undergraduates.

1. General Psychology. This course is designed as a comprehensive introduction to the principles and methods of scientific psychology. Text-book, lectures, and reference-work. *Mon., Wed., Fri.,* at 10. Professor HOUGH.

2. General Psychology. (Parallel with Course 1.) Designed specially for teachers. Experimental demonstrations and concrete problems will be freely introduced. Text-book and assigned reading. *Tu., Th.,* at 3.30, or at an hour to be arranged. Assistant Professor RUEDIGER.

Normal school graduates, and teachers of experience, may take Course 2 instead of Course 1 as the required course preliminary to the courses in Education.

Second Section. For Undergraduates and Graduates.

20. Comparative Psychology. The evolution of mind in the animal series and in man, including reference to the contributions of race psychology and abnormal psychology. Text-book, lectures, and reports upon assigned reading. *Tu., Th.,* at 10. Professor HOUGH.

21. Psychology of Conduct. An analysis of the causes of human action. Lectures and assigned reading. First half-year. Not given in 1908-09. Professor HOUGH.

22. Social Psychology. An analysis of the social self and of the psychological factors in the life of society. Lectures and reference-work. Second half-year. Not given in 1908-09. Professor HOUGH.

23. Experimental Psychology. An introductory laboratory course. Experiments on sensation, movement, effects of practice, fatigue, attention, memory, association, emotional manifestations, etc. Two two-hour periods. Hours to be arranged. Assistant Professor RUEDIGER.

24. Abnormal Psychology. A course in which variations from normal mental processes and their bearing upon problems of normal psychology are discussed. This includes: Hallucinations and illusions; defects of the sense organs; disorders of attention, memory and apperception; hypnotism. Lectures, demonstrations, and assigned readings. One two-hour period each week. Professor FRANZ.

(This course will be given at the Government Hospital for the Insane.)

25. History of Psychology. Special study of selected masterpieces, together with an outline of the whole course of development. One hour. Not given in 1908-09. Professor HOUGH.

Third Section. Primarily for Graduates.

40. Experimental Psychology. A laboratory course, treating special topics in psychology, such as memory, time of mental processes, movement, sensation, emotion, abnormal psychology, and physiological psychology. The topics selected for consideration in any year will be determined by the need of the students electing the course. Open only to students who have taken or are taking the course in general psychology, and the introductory course in experimental psychology, or their equivalents. Hours to be arranged. Professor FRANZ.

41. Experimental Psychology. A research course. Open only to students who have taken Courses 23 and 40, or their equivalents. Students will take up topics for original investigation in some field of experimental, physiological, comparative, or pathological psychology. (Courses 40 and 41 will be given in the psychological laboratory of the Government Hospital for the Insane, which is well equipped for psychological teaching and research.) Hours to be arranged. Professor FRANZ.

42. Crucial Problems in Psychology. Designed for graduates taking a major in Psychology. Professor HOUGH.

Educational Psychology. (See Course 40 under "Education.")

ROMANCE LANGUAGES AND LITERATURES.

GEORGE N. HENNING, A.M.....*Professor*
HENRI BAULIG, Licencié ès lettres.....*Instructor*
BENJAMIN M. WOODBRIDGE, A.B.....*Instructor*

FRENCH.

First Section. Primarily for Undergraduates.

1. Grammar, composition, drill in pronunciation. Fraser and Squair's French Grammar. Translation and reading of nineteenth century fiction and history. (400-500 pages.) For beginners. *Tu., Th., Sat.,* at 9.00. Mr. BAULIG.

2. Parallel with Course 1. *Tu., Th., Sat.,* at 5.40. Mr. BAULIG.

3. Translation and reading: Feuillet, *le Roman d'un jeune homme pauvre;* Dumas fils, *la Question d'argent;* Daudet, *Trois Contes;* Sarcey, *le Siège de Paris;* A. France, *Sylvestre Bonnard;* Molière, *l'Avare;* Loti, *Ramuntcho;* Coppée, *le Pater;* for outside reading, Zeller, *Henri IV* or *Richelieu.* Grammar, composition, conversation; Fraser and Squair's French Grammar. Open to students who have passed in French 1 or 2, or have fulfilled the admission requirements in Elementary French. *Mon., Wed., Fri.,* at 10. Mr. BAULIG.

4. Parallel with Course 3. *Tu., Th., Sat.,* at 4.50. Mr. BAULIG.

5. A third-year course for afternoon students who do not intend to pursue further the study of French. Open to students who have passed in Course 3 or 4, or have fulfilled the admission requirements in Advanced French. *Mon., Fri.*, at 5.40. Mr. BAULIG.

6. General survey of French literature, seventeenth to nineteenth centuries. Translation, collateral reading and reports thereon, lectures on literature and the history of the language, composition. Warren's French Prose of the Seventeenth Century, Canfield's French Lyrics, Lacombe's *Petite Histoire du peuple français,* Crane's *la Société française au XVII^e siècle,* Corneille, Molière, La Fontaine, Racine, Saint-Simon, Montesquieu, Marivaux, Voltaire, Rousseau, Beaumarchais, Hugo, Musset, Michelet, Balzac, Augier, Maupassant, Pailleron, A. France, Bornier, Daudet. Open to students who have passed in Course 3 or 4, or have fulfilled the admission requirements in Advanced French. *Mon., Wed., Fri.,* at 2.30. Professor HENNING.

Second Section. For Undergraduates and Graduates.

Courses in this group are open to students who have passed in Course 6, or who otherwise satisfy the instructor of their fitness to take them.

21. Seventeenth century literature; history, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Descartes, Pascal, La Rochefoucauld. La Bruyère, Boileau, Saint Simon, Mme. de Sévigné, Bossuet, Corneille, Racine, Molière, Fénelon, Malherbe, La Fontaine, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Given in 1908-09. Not given in 1909-10. *Tu., Th.,* at 10. Professor HENNING.

23. Eighteenth century literature; history, philosophy, criticism, letters, drama, fiction, poetry. Montesquieu, Diderot, Rousseau, Voltaire, Marivaux, Destouches, Sedaine, Beaumarchais, Bernardin de St. Pierre, André Chénier, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Not given in 1908-09.

25. Nineteenth century literature; history, philosophy, criticism, memoirs, travels, fiction, drama, lyric poetry. Thierry, Michelet, Mignet, Thiers, Taine, Sainte-Beuve, Brunetière, France, Lemaître, Renan, Gautier, Mme. de Staël, Chateaubriand, Hugo, George Sand, Mérimée, Balzac, Flaubert, Daudet, Maupassant, Loti, de Musset, Dumas fils, Augier, Maeterlinck, Rostand, Lamartine, de Vigny, the Romantic poets, the Parnassians, the Symbolists, etc. Translations, collateral reading and reports thereon, lectures on literature and history. Thesis. *Mon., Wed., Fri.,* at 11. Professor HENNING.

26. French Romanticism; lyric poetry, fiction, drama, history, criticism. Translation, reading, lectures. This course may be taken only in conjunction with English 26. Not given in 1908-09.

Third Section. Primarily for Graduates.

43. Old French and philology. Darmesteter's Historical French Grammar. La Chanson de Roland, etc. Professor HENNING.

47. The comedies of Molière. Professor HENNING.

50. The Romantic Movement in France, with some reference to the same movement in England and Germany. Professor HENNING.

Other courses may be arranged for competent graduates.

SPANISH.

First Section. Primarily for Undergraduates.

1. Grammar, composition. Hills and Ford's Spanish Grammar. Translation and reading of nineteenth century fiction and drama. Open to first-year students only by permission of the instructor. Open only to students who have had at least one year of French or Latin. Students may not elect Spanish and Italian in the same year. *Mon., Wed., Fri.,* at 4.50. Mr. WOODBRIDGE.

Second Section. For Undergraduates and Graduates.

20. Translation and reading of nineteenth and seventeenth century works; history, fiction, drama, lyric poetry. Lectures on literature and history. Open to students who have passed in Course 1 with at least the grade of C, or who otherwise satisfy the instructor of their fitness to take the course. Given in 1908-09. Two hours. Professor HENNING.

ITALIAN.

First Section. Primarily for Undergraduates.

1. Grammar, composition. Grandgent's Italian Grammar, Bowen's Italian Reader. Translation and reading of nineteenth century fiction and drama. Open to first-year students only by permission of the instructor. Open only to students who have had at least one year of French or Latin. Students may not elect Italian and Spanish in the same year. Given in 1908-09. Not given in 1909-10. *Tu., Th.,* at 11. Professor HENNING.

FRENCH CLUB.

The French Club, composed of instructors and advanced students in the department, and of alumni, has for its objects the study of French life, customs and history, and the use of the spoken language. Meetings are held monthly.

SEMITIC LANGUAGES AND LITERATURES.

FRANK LEIGHTON DAY, Ph.D.....*Professor*

First Section. Primarily for Undergraduates.

1. History of the Hebrews. This course covers the history of Israel from the beginning to the Maccabean Age, in successive steps: (*a*) From the beginning to Solomon. (*b*) From Solomon to Nehemiah. *Tu., Th.,* at 10.

2. New Testament Times. Including the political, social, and religious life from B. C. 175 to A. D. 70. *Tu., Th.,* at 11.

Second Section. For Undergraduates and Graduates.

20. A Course for Beginners in Hebrew. Including the acquisition of the grammatical principles of the language, the vocabulary, and careful reading of Genesis, chapters I-VIII. Harper's Introductory Hebrew Method and Elements of Hebrew are used as text-books. *Tu., Th., Sat.,* at 9.

22. Prophecy. Its History and Development. This course includes the special study of some of the prophetic books, with the life and times of the writers. *Mon., Wed.,* at 10.

23. Priestly Element in the Old Testament. *Mon., Wed.,* at 9.

Third Section. Primarily for Graduates.

40. The Minor Prophets. A course for advanced students in Hebrew, including Hebrew lexicography, etymology, and syntax.

41. Jeremiah. The life and times of the writer and critical study of the book.

42. Religion of the Semites.

Other courses may be arranged for competent graduates.

SOCIOLOGY.

(See statement under Economics and Sociology.)

SPANISH.

(See statement under Romance Languages and Literatures.)

ZOÖLOGY.

THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D.....*Professor*
PAUL BARTSCH, M.S., Ph.D*.....*Professor*
C. DWIGHT, MARSH, Ph.D.....*Professor*
JULIA T. MACMILLAN, B.S.....*Assistant*

* *Absent on Leave.*

First Section. Primarily for Undergraduates.

1. Systematic Zoölogy. I. Invertebrates. This includes lectures and laboratory work. The lectures in their scope cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution. Lecture, one hour; laboratory, two two-hour periods. *Mon. Wed., Fri.,* at 5.40. Professor BARTSCH.

2. Systematic Zoölogy. II. Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrata and correlated with these is the study and dissection of typical specimens of each group. Open only to students having completed Course 1. *Mon., Wed., Fri.,* at 4.50. Professor BARTSCH.

Second Section. For Undergraduates and Graduates.

20. Practical Zoölogy. A lecture course illustrated with lantern slides and demonstrations. In this course only beneficial and injurious animals of all classes will be considered, especial stress being laid upon the problems of preservation and extermination. The course aims to expound the economic side of zoölogy. Open to all students. One hour. Professor BARTSCH.

23. Ornithology. A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides, showing the home life of birds. The laboratory work consists in classifying bird skins, of which the University possesses an excellent series. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits of these forms. Lecture, one hour; laboratory, one two-hour period. *Tu., Th.,* at 4.50. Professor BARTSCH.

Laboratory courses in histology and physiology will be arranged for competent students.

Third Section. Primarily for Graduates.

40. A general course of lectures on the principles of zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy. The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection. The student is required to take up some subject or group for original investigation. Professor GILL.

The collections of the United States National Museum and the Smithsonian Institution are consulted in connection with all these courses.

THE JAMES CRICHTON COLLECTION.

An accession of value and interest to the Zoölogical laboratory is a recent gift to the University of a collection of butterflies, made by Mr. James Crichton, who died at the age of 27, on March 1, 1907. This collection containing many rare and beautiful species, is the third that he had made. It is given to the University by the friends of Mr. Crichton as a memorial to him, and it will be known as the "James Crichton Collection."

EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees:

Examinations for degrees shall close at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported to the President at least two weeks before the date of the commencement.

No student shall be credited with an examination for promotion from a lower to a higher class or to a final examination who is in arrears for tuition.

LIBRARY FACILITIES.

A well-equipped reference library and reading-room is open to students from 9 a. m. to 7 p. m. It contains encyclopædias, dictionaries, standard works in the various departments of study comprised under University Subjects, and the leading literary and scientific magazines and reviews. This is the general library of the Department of Arts and Sciences and includes the Germanic Library of the late Professor Richard Heinzel, of the University of Vienna, recently acquired by the University, contains 7200 volumes and pamphlets bearing on Germanic philology and literature, and a large number of works and periodicals in the cognate branches, especially Anglo-Saxon, Old English, the Romance languages and Slavic, and the divisional libraries in Engineering, Architecture, and Education.

The Library of Congress is steadily perfecting its collections of standard works in the various branches of University study, and advanced and graduate students are there given every facility for pursuing their investigations. The Public Library of the District of Columbia is being rapidly equipped with books of especial importance to students, and its facilities are available under the most favorable conditions. Under certain restrictions, the libraries of the governmental departments may also be utilized. All these libraries are within easy reach of the University.

FEES.

Arts and Sciences.

1. Matriculation fee (payable once)	$5
2. Annual library fee	2
3. Tuition fee per annum for graduate courses leading to the degrees of M.A., M.S., C.E., E.E., M.E., Jur.D., and Ph.D.	150
4. Tuition fee per annum for each hour per week of undergraduate courses leading to the degrees of B.A. and B.S., and for graduate courses leading to the degree of M.Dip.	10
5. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, except for courses which do not begin with the terms	2
6. Laboratory courses:	
Material fees:	
Mineralogy	5
Chemistry 2, 3, and 7; Electrical Engineering; Physics, each	10
Chemistry, 4 (Assaying)	20
Chemistry, except 2, 3, 4 and 7, each	25
Deposits to cover breakage of apparatus issued, the amounts paid in excess of breakage to be returned:	
Chemistry, 2, 3, and 7, each	10
Chemistry, except 2, 3, 4, and 7, each	25
7. Fee for graduation	10
8. Tuition fee for each of the following special courses, not taken by candidates for a degree	40
Architecture, Courses 37 and 38.	
Chemistry, Course 4 (Assaying).	
9. In determining tuition fees, four hours of laboratory work in Architecture, three hours of laboratory work in Chemistry, and two hours of laboratory work in other subjects count as one hour.	
10. Fee for a certificate under the seal of the University	2

No change will be made in the fees fixed at the time of registration except in the case of a change in or withdrawal from a course of studies, and then only upon notice in due form and from the end of the current quarter session when such change or withdrawal shall be approved. Applications for permission to change a course of studies or for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar and will only be received at the end of a quarter session.

PAYMENT OF FEES.

All fees are to be paid to the Treasurer. Tuition fees are payable quarterly in advance. Matriculation, library, and laboratory fees are payable in full in advance.

BOARD AND ROOMS.

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from $25 to $40 a month. Board and rooms for women students are offered in the Women's Building at $30 to $35 per month. Women students may apply to the Dean of Women.

HONORABLE DISMISSION.

An honorable dismission will always be issued to any student who has been granted a withdrawal from the University in good standing.

For catalogues, application blanks, and further information, address

THE REGISTRAR,
The George Washington University,
Washington, D. C.

Professional Departments.

DEPARTMENT OF MEDICINE.

FACULTY.

(Arranged, with the exception of the President and the Dean, in the several groups in order of collegiate seniority.)

CHARLES WILLIS NEEDHAM, LL.D.....PRESIDENT OF THE UNIVERSITY
WILLIAM F. R. PHILLIPS, M.D....Dean and Professor of Hygiene and of Practical Anatomy
J. FORD THOMPSON, M.D.....Professor Emeritus of Surgery
ALBERT F. A. KING, A.M., M.D., LL.D....Professor of Obstetrics and Dean Emeritus of the Faculty
GEORGE N. ACKER, A.M., M.D.....Professor of Pediatrics and of Clinical Medicine
HENRY C. YARROW, M.D.....Professor of Dermatology
D. KERFOOT SHUTE, A.B., M.D.....Professor of Anatomy and of Clinical Ophthalmology
STERLING RUFFIN, M.D.....Professor of Theory and Practice of Medicine and of Clinical Medicine
WILLIAM K. BUTLER, A.M., M.D.....Professor of Ophthalmology
JOHN VAN RENSSELAER, A.B., M.D.....Professor of Clinical Surgery
CHARLES EDWARD MUNROE, Ph.D.....Professor of Chemistry
CHARLES W. RICHARDSON, M.D..Professor of Laryngology and Otology
GEORGE WYTHE COOK, M.D.....Professor of Clinical Medicine
J. WESLEY BOVEE, M.D.....Professor of Gynecology
THOMAS A. CLAYTOR, M.D.....Professor of Materia Medica and Therapeutics and of Clinical Medicine
A. R. SHANDS, M.D.....Professor of Orthopedic Surgery
RANDOLPH B. CARMICHAEL, M.D....Professor of Clinical Dermatology
FRANCIS R. HAGNER, M.D.....Professor of Genito-Urinary Surgery and Venereal Diseases
JOHN B. NICHOLS, M.D.....Professor of Histology
WILLIAM C. WOODWARD, M.D., LL.M.....Professor of Medical Jurisprudence
ALBERT L. STAVELY, M.D.....Clinical Professor of Gynecology
WILLIAM A. WHITE, M.D.....Professor of Mental Diseases
I. W. BLACKBURN, M.D.. .....Professor of Morbid Anatomy
ARTHUR A. SNYDER, M.D.....Clinical Professor of Surgery
SHEPHERD IVORY FRANZ, Ph.D.....Professor of Physiology

JOSEPH JAMES KINYOUN, M.D., Ph.D..Professor of Bacteriology and Pathology
EDWARD E. MORSE, M.D.....Assistant Professor of Obstetrics
EDWARD G. SEIBERT, M.D.....Assistant Professor of Chemistry
JULIAN M. CABELL, M.D.....Assistant Professor of Obstetrics
D. WEBSTER PRENTISS, M.D.....Assistant Professor of Histology
C. S. WHITE, M.D.....Assistant Professor of Surgery
EDGAR P. COPELAND, M.D....Assistant Clinical Professor of Pediatrics
T. S. D. GRASTY, M.D.....Assistant Professor of Bacteriology and Pathology
JOSEPH M. HELLER, M.D.....Lecturer on Diseases of the Tropics
L. H. TAYLOR, M.D.....Assistant Professor of Surgery
JOHN R. WELLINGTON, M.D.....Assistant Professor of Surgery
JOHN H. LINDSEY, M.D.....Assistant Professor of Clinical Medicine and Curator of Pathological Museum
NOBLE P. BARNES, M.D.....Lecturer on Materia Medica
DUFF G. LEWIS, M.D.....Assistant Clinical Professor of Surgery
JOHN T. KELLY, M.D.....Assistant Clinical Professor of Surgery
H. H. DONNALLY, A.M., M.D, Assistant Professor of Clinical Medicine
HURON W. LAWSON, M.S., M.D....Assistant Professor of Bacteriology and Pathology
FRANK FREMONT-SMITH, M.D.....Assistant Professor of Pediatrics
WILLIAM F. M. SOWERS, A.B., M.D....Assistant Professor of Surgery
SAMUEL H. GREENE, JR., M.D.....Instructor in Anatomy
HOMER S. MEDFORD, M.D.....Instructor in Obstetrics
L. H. REICHELDERFER, M.D.....Instructor in Medicine
J. L. RIGGLES, M.D.....Instructor in Anatomy
H. C. MACATEE, M.D.....Instructor in Medicine
G. BROWN MILLER, M.D.....Instructor in Gynecology
W. A. FRANKLAND, M.D.....Instructor in Clinical Gynecology and Assistant Demonstrator of Anatomy
THOMAS M. PRICE, Ph.D.....Instructor in Bio-Chemistry
OTIS D. SWETT, B.S.....Instructor in Chemistry
HENRY R. ELLIOTT, M.D.....Instructor in Physiology
WALTER H. MERRILL, M.D.....Instructor in Electro-Therapeutics
B. M. RANDOLPH, M.D.....Instructor in Pharmacology
O. A. M. MCKIMMIE, M.D.....Clinical Instructor in Laryngology and Ophthalmology
H. S. DYE, M.D.....Clinical Instructor in Laryngology and Ophthalmology
H. C. COBURN, M.D.....Instructor in Physical Diagnosis
A. BARNES HOOE, M.D.....Instructor in Gynecology
WILBUR R. BRANDENBURG, M.D.....Demonstrator of Bacteriology and Pathology

TRUMAN ABBE, M.D.....Instructor in Physiology
GEORGE B. HEINECKE, M.D.....Assistant Demonstrator of Anatomy
J. LAWN THOMPSON, M.D.....Instructor in Surgery
W. W. WILKINSON, M.D.....Instructor in Physical Diagnosis
CHARLES W. HYDE, M.D.....Assistant in Surgery
A. L. HUNT, M.D.....Assistant in Surgery
E. T. M. FRANKLIN, M.D.....Assistant in Surgery
W. J. FRENCH, M.D.....Assistant in Surgery
E. P. MAGRUDER, A.M., M.D.....Assistant Demonstrator of Anatomy
DANIEL T. BIRTWELL, M.D.....Assistant Demonstrator of Anatomy
GLENN I. JONES, M.D.....Assistant Demonstrator of Anatomy
W. O. OWEN, M.D.....Assistant Demonstrator of Anatomy
A. P. CLARK.....Assistant in Chemistry
F. A. HORNADAY, B.S.....Assistant in Chemistry
C. S. LUDLOW, Ph.D.....Demonstrator of Histology and Embryology

UNIVERSITY HOSPITAL.

VISITING STAFF.

STERLING RUFFIN, M.D.....Visiting Physician
THOMAS A. CLAYTOR, M.D.....Visiting Physician
GEORGE N. ACKER, M.D.....Visiting Pediatrician
A. F. A. KING, A.M., M.D., LL.D.....Visiting Obstetrician
HENRY C. YARROW, M.D.....Visiting Dermatologist
D. KERFOOT SHUTE, M.D.....Visiting Ophthalmologist
CHARLES W. RICHARDSON, M.D.....Visiting Laryngologist
J. WESLEY BOVEE, M.D.....Visiting Gynecologist
JOHN R. WELLINGTON, M.D.....Visiting Surgeon
L. H. TAYLOR, M.D.....Visiting Surgeon
W. F. M. SOWERS, A.B., M.D.....Visiting Surgeon
W. K. BUTLER, M.D.....Associate Visiting Ophthalmologist
JULIAN M. CABELL, M.D.....Associate Visiting Obstetrician

OUT-PATIENT DEPARTMENT.

SURGICAL DISPENSARY.

J. L. RIGGLES, M.D.....In charge
ARTHUR L. HUNT, M.D.....Assistant
GLEN I. JONES, M.D.....Assistant

MEDICAL DISPENSARY.

JOHN H. LINDSEY, M.D.....In charge
E. P. COPELAND, M.D.....Assistant
W. A. FRANKLAND, M.D.....Assistant
S. H. GREENE, JR., M.D.....Assistant
H. C. COBURN, M.D.....Assistant

B. M. Randolph, M.D.....Assistant
C. M. Beall, M.D.....Assistant
H. H. Donnally, M.D.....Assistant
C. W. Hyde, M.D.....Assistant

GYNECOLOGICAL DISPENSARY.

A. B. Hooe, M.D.....In charge
D. W. Prentiss, M.D.....Assistant
Samuel Fry, M.D.....Assistant
Adam Kemble, M.D.....Assistant

EYE, EAR, THROAT, AND NOSE DISPENSARY.

E. G. Seibert, M.D.....In charge
C. L. Billard, M.D.....Assistant

GENITO-URINARY DISPENSARY.

Henry R. Elliott, M.D.....In charge

SKIN DISEASE DISPENSARY.

Randolph B. Carmichael, M.D.....In charge

CHILDREN'S DISEASES.

Frank Fremont-Smith, M.D.....In charge

GENERAL STATEMENT.

In the chronological order of establishment the Department of Medicine of The George Washington University is the seventeenth Medical School in the United States. The first course of lectures began in March, 1825. For many years the school was known as the National Medical College; subsequently as the Department of Medicine of the Columbian University. By virtue of an Act of Congress approved January 23, 1904, the Columbian University changed its name to "The George Washington University."

When first established, and for many years thereafter, this school, like most others in this country, gave only a two years' course of five months each. In 1878 the course was lengthened by the establishment of a Spring Session, devoted to lectures in certain special subjects. Again in 1879 the course was lengthened to seven months and attendance upon three annual sessions required; in 1893 attendance upon four regular courses was made obligatory upon all candidates for the degree of Doctor of Medicine. The present course of instruction for the

degree of Doctor of Medicine extends through four years of eight months each. In order to increase the facilities for actual bedside teaching, the University Hospital was established in 1898 and made a part of the Department of Medicine. In 1902 the old building, in which the exercises had been held since 1867, gave place to the present enlarged and commodious structure.

The academic year begins on the last Wednesday in September and ends on the second Wednesday in June. The next session, the eighty-eighth, begins September 30, 1908, and ends June 9, 1909. Students must register promptly at the beginning of the session, in order that their time of study shall count as a full year. Degrees are conferred at Commencement, the first Wednesday in June; at the Fall Convocation, the third Wednesday in October, and at the Winter Convocation, February 22.

For catalogues and other information address either the Registrar of the University or the Dean of the Department of Medicine, The George Washington University, Washington, D. C.

ADMISSION.

Candidates for matriculation must show that they are fitted by previous education to study medicine. The requirements are as follows:

Advanced Requirements After 1909.

Beginning with the session of 1909-10 no student will be matriculated for the degree of Doctor of Medicine (*a*) who has not completed satisfactorily in an approved college or scientific institution two years of work of a regular course for a baccalaureate degree or (*b*) who does not possess equivalent educational training and acquirements.

Applications for matriculation will be required (*a*) to submit certificates, duly authenticated, of the college or scientific institution in which their work was done, setting forth the courses taken and the grades attained or (*b*) to pass satisfactorily examinations equivalent to the final examinations in subjects of the sophomore year of approved colleges or scientific institutions and aggregating fifteen units. In both cases, (*a*) and (*b*), one unit must be in physics and one unit in chemistry.

Admission Requirements for the Session of 1908-09.

Admission Without Examination.

Candidates are admitted without examination:

(1) Upon presenting a diploma or certificate of an approved college conferring on them the degree of A.B. or B.S., or an equivalent degree in the arts and sciences.

(2) Upon presenting a diploma or certificate of graduation from a high school, academy, or preparatory school approved by the University as maintaining an adequate standard.

(3) Upon presenting a certificate of admission to the freshman class of an approved college.

(4) Upon presenting a medical student's certificate issued by a State board.

(5) Upon presenting a certificate of admission to another medical school approved by the University as maintaing an adequate standard.

Admission by Examination.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement for admission to the Freshman Class of Columbian College of the University, which is a four-year high school course, or its equivalent. This examination comprises subjects selected from the annexed list equal to 15 units. For admission to the Department of Medicine nine (9) of the 15 units are required in the following subjects:

	Units.
English	4
Mathematics	3
Physics	1
Latin, French, or German	1
Total	9

The other 6 units may be selected from the other subjects. A unit is considered the equivalent of one year's high school work in a subject.

List of Subjects.

English:	Units.
(*a*) Grammar	1
(*b*) Rhetoric and Composition	1
(*c*) Literature—a knowledge of the form, subject-matter, and literary history of prescribed works is required	2

The following are the works prescribed for 1907-08: Burke's *Speech on Conciliation,* Macaulay's *Essay on Addison,* Macaulay's *Life of Johnson,* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Shakespeare's *Julius Cæsar.* Equivalent readings may be offered.

	Units.
Latin:	
(*a*) Elementary Grammar	1
(*b*) Cæsar's Commentaries, Books I-IV	1
(*c*) Advanced Latin	2
Greek:	
(*a*) Elementary Grammar	1
(*b*) Xenophon or Homer	1
(*c*) Advanced Greek	1
Modern Languages:	
(*a*) Elementary French Grammar	1
(*b*) French, translation of easy prose	1
(*c*) Elementary German Grammar	1
(*d*) German, translation of easy prose	1
History:	
United States	1
English	1
Greek or Roman	1
General	1
Mathematics:	
(*a*) Algebra through quadratics	1½
(*b*) Plane Geometry	1
(*c*) Plane Trigonometry	½
(*d*) Advanced Mathematics	1
Sciences:	
Physics	1
Chemistry	1
Astronomy	½
Biology	1
Geology	½
Botany	1
Physical Geography	½
Physiology	½
Ethics	½
Economics	½

The scope of the different subjects is indicated by standard high school text-books.

Candidates may offer other subjects than those stated in the foregoing list of subjects, and if they are acceptable examinations will be arranged. A candidate may offer certificates of an approved school for work done in any of the foregoing subjects, and will be credited

with the units represented by such work. A candidate failing to pass in two of the subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the second-year class. The examinations are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

As the laws relating to the preliminary educational qualifications required of students of medicine differ in many of the States of the Union, candidates are advised to make themselves familar with the provisions of the medical statutes of the States in which they contemplate applying for license to practice. Attention to this precaution may save future embarrassment.

Examinations for admission to the first-year Medical class will be held in Hall No. 2 of the Medical Building, in accordance with the following schedules:

May 25 and September 14, 10 a. m., English.
May 26 and September 15, 10 a. m., Mathematics.
May 27 and September 16, 10 a. m., Physics.
May 28 and September 17, 10 a. m., Latin.
May 29 and September 18, 10 a. m., Electives.

ADMISSION OF STUDENTS FROM OTHER SCHOOLS.

Students of other recognized and approved medical schools may be admitted to this school as follows:

Those qualified to enter the second year of their own school may be admitted to the second-year class of this school; those qualified to enter the third year of their own school to the third year of this school, and those qualified to enter the fourth year of their own school to the fourth years of this school: Provided, however, that the subjects pursued by the applicants in their previous year or years are reasonably equivalent to those required in the same year or years of this school, and that the requirements for advancement from class to class are the equivalent of those in this school. Applicants may be required to submit to examination in all the subjects pursued by the previous class of this school.

DEGREE OF A.B. AND M.D. IN SIX YEARS.

The degrees of Bachelor of Arts and of Doctor of Medicine may be obtained in six years by students, who, pursuing the appropriate courses, take and complete in Columbian College of this University two years' work aggregating thirty units, of which five units must be in Physics and five in Chemistry, and then, entering the Department of Medicine, successfully complete the prescribed course for the degree of Doctor of

Medicine. The degree of A.B. will be conferred upon the completion of the second year's work in the Department of Medicine, and that of M.D. upon the completion of the fourth year's work.

ADVANCED STANDING.

No advanced standing can be given for degrees in Dentistry, Veterinary Medicine, or Pharmacy.

Students holding degrees in Arts, Science, or Philosophy, who in the course of study for their degrees have pursued studies in chemistry, physiology, anatomy, histology, bacteriology, or pathology, equivalent to the courses in these subjects in this school, may upon satisfactory evidence of their proficiency be credited with such studies.

SPECIAL STUDENTS.

Students, approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted without examination to pursue any course they may elect. Such courses cannot, however, be subsequently considered as time spent in the course for the degree of Doctor of Medicine. Nor can such students enter upon the regular medical course without complying with all the regular requirements for admission.

WITHDRAWALS.

A certificate of work actually done will be given to any student wishing to withdraw or transfer to some other school during the session. Written notice of such withdrawal or transfer must be filed with the Dean at the time of requesting the certificate, and the student must have paid all fees and dues chargeable against him up to the end of the quarter in which he withdraws.

CLASSIFICATION OF STUDENTS.

Students are divided into four classes, according to their proficiency, and the time spent, viz., first year, second year, third year and fourth year. Students cannot advance to a higher class with more than one major and one minor condition. Students failing in any subject or subjects may be permitted at the next examination period a re-examination in the subjects in which they fail. The Faculty may dismiss any student from the school, if in its judgment such student be deemed an unsuitable person, intellectually or otherwise for the profession of medicine.

ORDER OF INSTRUCTION.

A change in the arrangement of the subjects of the curriculum went into effect with the session of 1905-06. This change was made in order to secure a more logical correlation of the subjects, enabling the student to utilize his time to better advantage.

The subjects studied in each year are shown in the following table:

First Year.	Second Year.	Third Year.	Fourth Year
Anatomy.	Organic and Physiological Chemistry.	Practice.	Clinical Medicine.
Histology.	Bacteriology.	Surgery.	Clinical Obstetrics.
Physiology.	Pathology.	Obstetrics.	Clinical Surgery.
General Chemistry.	Materia Medica.	Therapeutics.	Laryngology.
	Pharmacology.	Gynecology.	Otology.
	Hygiene.	Medical Jurisprudence.	Ophthalmology.
	Clinical Microscopy.	Clinics.	Dermatology.
	Physical Diagnosis.		Psychiatry.
			Pediatrics.
			Neurology.
			Tropical Diseases.

The greater part of the fourth year is devoted to clinical work in the hospitals. During this year, however, general instruction is also given in Mental Diseases, Neurology, Dermatology, Ophthalmology, Laryngology, and Otology. Not less than 1000 hours of clinical work are required.

Optional Five-Year Course.

Since the session of 1904-05 a five-year optional course has been offered for the benefit of students unable to do in the prescribed time the work of the regular four-year course. In this course the subjects are arranged as follows:

First year.	Second year.	Third year.	Fourth year.	Fifth year.
Anatomy.	Physiological and organic Chemistry.	Bacteriology.	Practice.	Clinical Medicine.
Histology.	Physiology.	Pathology.	Surgery.	Clinical Obstetrics.
General Chemistry.	Materia Medica.	Hygiene.	Obstetrics.	Clinical Surgery.
	Pharmacology	Therapeutics.	Gynecology.	Laryngology.
		Medical Jurisprudence.		Otology.
		Clinical Microscopy.		Ophthalmology.
		Physical Diagnosis.		Dermatology.
				Psychiatry.
				Pediatrics.
				Neurology.
				Tropical Diseases.

This course requires an average of not less than 700 hours annually during the first, second, third and fourth years, and 1200 hours during the fifth year.

ANATOMY.

First Year.

Hours.

Lectures, 2 hours, *Oct.-Jan.* Professor SHUTE..... 32
Recitations, 1 hour, *Oct.-Jan.* Dr. RIGGLES and Dr. GREENE..... 32
Osteology, 15 hours, *Oct.-Nov.* Professor PHILLIPS and assistants, 120
Dissections, 15 hours, *Nov.-Mar.* Professors SHUTE, PHILLIPS and assistants 300

Second Year.

	Hours.
Lectures and Demonstrations, 1 hour, *Oct.-May.* Professor SHUTE,	32

Text-books: Cunningham's Text-book of Anatomy, Gray's Anatomy, Cunningham's Manual of Practical Anatomy.

Collateral reading: Quain's Anatomy, Spalteholz's Anatomy, Taylor's Applied Anatomy, Wiedersheim's Structure of Man.

HISTOLOGY AND EMBRYOLOGY.

First Year.

	Hours.
Histology, Laboratory, 9 hours, *Oct.-Dec.* Professor NICHOLS and assistants	100
Embryology, Laboratory 9 hours, *Jan.* Professor NICHOLS and assistants	36

Text-book: Nichols's Histology.

Collateral reading: Böhm and von Davidoff's Histology, Stohr's Histology.

PHYSIOLOGY.

First Year.

	Hours.
Lectures and Conferences, 3 hours, *Feb.-May.* Professor FRANZ,	48
Recitations, 2 hours, *Feb.-May.* Professor FRANZ and Dr. ABBE..	32
Laboratory, 12 hours, *Feb.-May.* Professor FRANZ and Dr. ABBE..	192

Second Year.

Pathological Physiology, 1 hour. Professor FRANZ and Dr. ELLIOTT,	32
Pharmacological Laboratory, 2 hours, *Oct.-Jan.* Professor FRANZ and Dr. ELLIOTT	32

Text-book: Tigerstedts Physiology; Howell's Physiology.

Collateral reading: Schafer's Physiology, Landois' Physiology, American Text-book of Physiology, Stewart's Physiology.

CHEMISTRY.

First Year.

	Hours.
Lectures and Recitations, General Chemistry, 3 hours. Professor MUNROE and Mr. SWETT	96
Laboratory Work, 4 hours, *Feb.-May.* Assistant Professor SEIBERT	64

Second Year.

Hours.

Lectures, Organic Chemistry, 2 hours, *Oct.-Feb.* Professor MUNROE 32
Laboratory Work, 2 hours, *Oct.-Feb.* Assistant Professor SEIBERT, 32
Physiological Chemistry, lecture 1 hour, *Oct.-Feb.* Assistant Professor SEIBERT 16
Physiological Chemistry, laboratory 2 hours, *Oct.-Feb.* Assistant Professor SEIBERT 32

Text-books: Holland's Medical Chemistry and Toxicology, Long's Text-book of Physiological Chemistry, Platt's Manual of Qualitative Analysis and Medical Chemistry.

Collateral reading: Simon's Manual of Chemistry, Hammarsten's Physiological Chemistry, Richter's Organic Chemistry, Barker's Text-book of Elementary Chemistry.

MATERIA MEDICA AND THERAPEUTICS.

Second Year.

Hours.

Lectures and Recitations on Materia Medica, 3 hours. Dr. BARNES, 96

Third Year.

Lectures on Therapeutics, 2 hours. Professor CLAYTOR..... 64
Recitations, 1 hour. Dr. RANDOLPH..... 32
Lectures and Demonstrations. Electro-Therapeutics 1 hour, *Feb.-May.* Dr. MERRILL 16
Pharmacology. (*See* under Physiology.)

Text-books: Wood's Therapeutics, Wilcox's Materia Medica and Pharmacy.

Collateral reading: Hare's Practical Therapeutics, Culbreth's Materia Medica and Pharmacy, Cushney's Pharmacology, Osborne's Introduction to Pharmacology and Medicine.

BACTERIOLOGY AND PATHOLOGY.

Second Year.

Hours.

Bacteriology, Laboratory 12 hours, *Oct.-Jan.* Professor KINYOUN and assistants 194
Pathology, Laboratory, 12 hours, *Feb.-May.* Professor KINYOUN and assistants 194
Clinical Microscopy, 4 hours, *May.* Professor KINYOUN and assistants 16

Text-books: Abbott's Principles of Bacteriology, Delafield and Prudden's Pathology.

HYGIENE.

Second Year.

Hours.

Recitations and Demonstrations, 2 hours, *Feb.-May.* Professor Phillips 34

Text-book: Harrington's Hygiene.

Collateral reading: Notter and Firth's Hygiene.

SURGERY.

Second Year.

Hours.

Surgical Technique and Bandaging, 3 hours, *Feb.-May.* Assistant Professor White and assistants..... 48

Third Year.

Lectures, 2 hours. Assistant Professor Wellington..... 64
Surgical Pathology, 1 hour. Assistant Professor Sowers..... 32
Recitations, 1 hour. Assistant Professor Taylor, and Drs. Copeland and Thompson 32

Fourth Year.

Fractures and X-Ray, 1 hour. Assistant Professor White..... 28
Opthopedics, 1 hour, *Oct-Dec.* Professor Shands..... 12
Genito-Urinary Surgery, 1 hour, *Jan.-Mar.* Professor Hagner... 12

Text-book: Da Costa's Surgery.

Collateral reading: von Bergmann's System of Surgery, Park's Surgery.

CLINICAL SURGERY.

Third Year.

Hours.

Amphitheatre Clinics, 1 hour. Assistant Professors Taylor, Sowers, Wellington..... 32

Fourth Year.

Clinics. Professors Van Rensselaer, Snyder; Assistant Professors Wellington, Taylor, Sowers, White..... 64
Ward Classes, 4 hours. Assistant Professors Sowers and Taylor, 120
Case Teaching, 2 hours. Assistant Professor Taylor..... 64

OBSTETRICS.

Third Year.

Hours.

Lectures, 2 hours. Professor King..... 64
Recitations, 1 hour. Dr. Medford..... 32
Mannikin Demonstrations. Assistant Professor Morse..... 5
Clinics (third and fourth year classes). Assistant Professors Cabell, Morse, and Dr. Medford..... *

* Time variable, depending upon cases.

Text-book: King's Manual of Obstetrics.

Collateral reading: Hirst's Obstetrics, Williams' Obstetrics, Jewett's Practice of Obstetrics.

THEORY AND PRACTICE OF MEDICINE.

Hours.

Lectures, 3 hours, Third and Fourth Year. Professor RUFFIN.... 96
Recitations, 1 hour, Fourth Year Class. Dr. REICHELDERFER..... 32
" 1 " Third " " Dr. MACATEE 32
Clinics, 1 hour. Fourth Year Class. Professor RUFFIN..... 32
Lectures on Tropical Medicine, 1 hour, *Jan.-Mar.* Dr. HELLER.... 12

Second Year.

Physical Diagnosis, 2 hours, *Feb.-Mar.* Dr. WILKINSON..... 32

Text-books and works of reference: Osler's Practice of Medicine, Tyson's Practice of Medicine, Anders' Practice of Medicine, Sahlinger and Kalteyer's Modern Medicine, Hare's Practical Diagnosis, Musser's Clinical Diagnosis, Simon's Clinical Diagnosis, Klemperer's Clinical Diagnosis, Cabot's Clinical Examination of the Blood.

CLINICAL MEDICINE

Third Year.

Hours.

Ward and Section Classes. Assistant Professors FREMONT-SMITH, and Dr. MACATEE 64

Fourth Year.

Ward Clinics, 4 hours. Professors RUFFIN, ACKER, CLAYTOR, COOK, and Dr. COPELAND..... 120
Case Teaching, 2 hours. Assistant Professor LINDSEY..... 64

GYNECOLOGY.

Third Year.

Hours.

Lectures, 1 hour, *Oct.-May.* Professor BOVÉE..... 32
Recitations, 1 hour, *Oct.-May.* Drs. MILLER and HOOE..... 32

Fourth Year.

Clinics (in sections). Professor BOVÉE, Drs. MILLER, FRANKLAND, and HOOE 38

Text-books: Bovée's Practice of Gynecology, Hirst's Diseases of Women.

Collateral reading: Dudley's Gynecology, Penrose's Diseases of Women, Montgomery's Text-book of Gynecology.

NERVOUS DISEASES.

Fourth Year.

Hours.

Lectures, 1 hour. Professor ————..... 32
Clinics, 1 hour. Professor ————..... 32

Text-book:

LARYNGOLOGY AND OTOLOGY.

Fourth Year.

Hours.

Lectures, 3 hours, *Oct.-Nov.* Professor RICHARDSON..... 24
Clinics. Professor RICHARDSON, Dr. DYE, Dr. MCKIMMIE..... 24

Text-books: Kyle's Diseases of the Nose and Throat, Dench's Diseases of the Ear.

OPHTHALMOLOGY.

Fourth Year.

Hours.

Lectures, 1 hour, *Jan.-Mar.* Professor BUTLER..... 12
Clinics. Professors BUTLER and SHUTE, and Dr. SEIBERT..... 12

Text-book: May's Diseases of the Eye.

DERMATOLOGY.

Fourth Year.

Hours.

Lectures, 1 hour, *Oct.-Dec.* Professor YARROW..... 14
Clinics, *Oct.-Dec.* Professors YARROW and CARMICHAEL..... 12

Text-book: Jackson's Diseases of the Skin.

MENTAL DISEASES.

Fourth Year.

Hours.

Lectures and Clinics, 1 hour, *Jan.-May.* Professor WHITE..... 20

Text-book: White's Outlines of Psychiatry.

Collateral reading: Paton's Psychiatry; Kraepelin's Clinical Psychiatry.

MEDICAL JURISPRUDENCE.

Third Year.

Hours.

Lectures, 1 hour, *Feb.-May.* Professor WOODWARD..... 16

Text-book: Reese's Medical Jurisprudence and Toxicology.

PEDIATRICS.

Fourth Year.

Hours.

Lectures, 1 hour, *Jan.-Mar.* Professor ACKER..... 12
Clinics. (*See* Clinical Medicine.)

Text-book: Holt's Diseases of Infants and Children.

MORBID ANATOMY.

Fourth Year.

Hours.

Post-Mortem Demonstrations, 1 hour, *Jan.-May.* Professor BLACKBURN 20

EXAMINATIONS.

Examinations are held at the end of the course in each subject. Students failing in examination will be permitted to be re-examined at the next regular examination period. Students failing in re-examination in a major subject must repeat the subjects in which they do not attain a grade of 80 or more. Students failing to appear at the regular examinations will not be examined until the next regular examination, except by special permission of the Faculty, and in this event an extra fee of $5.00 will be charged. Students failing to pass satisfactorily their practical laboratory examinations will be required to repeat the laboratory courses and pay the regular laboratory fees. Students will not be admitted to examination unless they have paid all fees due at the time or present a permit signed by the Treasurer. In order to avail themselves of the privilege of re-examination students must file their applications with the Dean not later than fifteen days before the date set for the examinations.

In addition to the foregoing examinations students are required: to dissect satisfactorily one lateral half of the cadaver; to report satisfactorily an analysis of a specimen of urine and a clinical examination of a specimen of blood; to examine and report upon six clinical cases in general medicine and two cases in surgery; to perform satisfactorily two major surgical operations upon the cadaver; to work not less than two weeks in the Dispensary Service of the University or other hospitals; to work not less than two weeks in the Clinical Laboratory of the University or of some other hospital approved by the Dean; to take charge of one or more obstetrical cases and to report thereon; to examine and report on one case in either ophthalmology, laryngology, otology, dermatology, or orthopedics; to report upon one case in gynecology.

Proficiency is marked upon a scale of 100. A grade of 70 is required to pass an examination.

Students do not receive their numerical grades, but are notified that they have attained grades A, B, C, D, E, or F, as the case may be. A signifies 96 to 100; B signifies 90 to 95; C signifies 80 to 89; D signifies 70 to 79; E signifies failure; F signifies failure to appear for examination.

REQUIREMENTS FOR DEGREES.

Every candidate for the degree of Doctor of Medicine must be of reputable character, must have passed all his examinations, and be at least twenty-one years of age at the time of graduation. He must have complied with the admission examination and other requirements herein set forth. He must file with the Dean, at least 30 days before the dates fixed for conferring of degrees, a notice of his intention to appear for graduation, and he must be present at the time specified for examination, and also at Commencement or Convocation. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges must spend one year in residence at this school.

Candidates who have completed their courses, but have not passed their final examinations, may take the fall or the winter re-examinations upon payment of a fee of $10, and, if successful, receive their diplomas at the Fall or Winter Convocation, as the case may be, upon the payment of the diploma fee.

A student who has failed of graduation after repeating his final year will not be permitted to maintain his connection with the school.

Candidates who in their work and examinations attain general averages of 80 or more will be presented to the Faculty for consideration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction," and the names of such graduates will be distinctively printed at the head of the list of graduates of the year.

COURSES IN ARTS AND SCIENCES.

Students taking a full course for the degree of Doctor of Medicine may, if otherwise qualified, be admitted without additional fee, except laboratory fees, to courses in the Department of Arts and Sciences, provided such courses do not exceed in the aggregate six hours a week.

SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September 10. Students holding scholarships pay the matriculation, library, laboratory, and graduation fees, and make the deposit to cover breakage. Holders of scholarships must also maintain a satisfactory scholastic average.

Corcoran Scholarships.—In recognition of the liberality of the late W. W. Corcoran, the University has established in this department six free scholarships.

Two of these scholarships are open for competitive examination to the graduates of the several high schools and the manual training school of the District of Columbia. These two scholarships are awarded to the two students whose averages are highest.

Two of the scholarships are open for competitive examination to graduates of any reputable high school or college who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two graduates whose averages are highest.

The remaining two scholarships are open for competitive examination to students who, though not graduates of any high school or college, give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two students whose averages are highest.

In establishing these averages professional aptitude and general qualifications are considered along with scholastic ability.

Medical Missionary Scholarships.—Two Medical Missionary Scholarships will be given to such applicants as are judged by the President of the University best qualified to enter upon the study of medicine for the purpose of becoming medical missionaries. These scholarships are awarded for one year only, but they may be renewed.

PRIZES.

A general examination prize of $50 is annually awarded to the candidate for graduation who attains the highest average grade in all subjects.

Professor H. C. Yarrow gives a prize for the best examination in Dermatology.

Professor Charles W. Richardson gives a prize for the best examination in Laryngology and Otology.

Professor Acker gives a prize for the best examination in Pediatrics.

Professor Butler gives a prize for the best examination in Ophthalmology.

HOSPITAL APPOINTMENTS.

Three interns are annually appointed in the University Hospital. They are appointed from graduates who have served as externs. Seven externs are also appointed from graduates and from the fourth-year class. These appointments are made upon competitive examinations under conditions determined by the governing authorities of the Hospital. Appointments to similar positions are open to the graduates and

undergraduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear, Throat, and Nose Hospital.

CLINICAL FACILITIES.

The following hospitals are open to the students of this school for clinical study.

University Hospital.—This hospital is a part of the educational equipment of this University, and is intended to be used primairly in instructing the students in clinical medicine, surgery, and obstetrics. It has also in connection with it an out-patient or dispensary service in all departments.

Garfield Memorial Hospital.—This institution has 118 charity beds. Clinics are given regularly throughout the session by members of the Faculty connected with the visiting staff of the hospital. There is also an out-patient department, giving good opportunities for experience in the practice of physical diagnosis.

Children's Hospital.—Regular clinical instruction is given in the medical and surgical wards by members of the Faculty on the visiting staff of the hospital. This institution has 100 charity beds. There is also a large out-patient department.

Emergency Hospital and Central Dispensary.—This hospital has 36 charity beds, and has a very large out-patient service. The large emergency service gives exceptional facilities in clinical surgery. Several members of the Faculty are on its visiting and dispensary staffs and give clinical instruction to the students.

Columbia Hospital for Women.—This hospital has 68 charity beds for diseases peculiar to women and 50 charity maternity beds. Members of the Faculty are connected with its service and use its facilities for clinical instruction.

Providence Hospital.—This institution has a large charity service—100 beds for medical and surgical cases and 30 maternity beds.

The Government Hospital for the Insane.—This hospital is maintained by the United States Government. It has 2,500 beds. Clinical instruction in mental diseases is given by the superintendent of the hospital, who is a member of the Faculty of this school.

Episcopal Eye, Ear, Throat, and Nose Hospital.—Excellent opportunities for clinical instruction in ophthalmology, otology, laryngology, and rhinology are offered by this hospital. Members of the Faculty are on its staff.

Lutheran Eye and Ear Dispensary.—This dispensary affords good opportunities for clinical study of diseases of the eye, ear, throat, and nose. Clinical instruction is given by a member of the Faculty.

Casualty Hospital.—Opportunities in emergency and dispensary work are afforded by this institution.

Location of Hospitals.

University Hospital, H street between Thirteenth and Fourteenth streets, northwest, and adjacent to the Medical Building. Visiting staff: Members of the Faculty of the Department of Medicine.

Garfield Memorial Hospital, Florida avenue and Tenth street, northwest. Members of the Faculty on the visiting staff:

Professor Claytor, Clinical Medicine; Professor Cook, Clinical Medicine; Professors Van Rensselaer and Snyder, Clinical Surgery; Professor Stavely, Clinical Gynecology; Professor Carmichael, Clinical Dermatology; Professor Butler, Clinical Ophthalmology; Professor Hagner, Clinical Genito-Urinary Surgery.

Children's Hospital, W street between Twelfth and Thirteenth streets, northwest. Members of the Faculty on the visiting staff:

Professor Wellington, Clinical Surgery; Professor Acker, Clinical Medicine.

Emergency Hospital and Central Dispensary, Fifteenth street and Ohio avenue, northwest. Members of the Faculty on the visiting staff:

Professor Hagner, Clinical Genito-Urinary Diseases; Dr. Macatee, Clinical Medicine; Professor Carmichael, Clinical Dermatology; Dr. Miller, Clinical Gynecology; Professor Shands, Orthopedics.

Columbia Hospital for Women, Twenty-fifth street and Pennsylvania avenue, northwest. Members of the Faculty on the visiting staff.

Professor Bovée, Clinical Gynecology; Professor Cabell and Professor Morse, Clinical Obstetrics.

Providence Hospital, Second and D streets, southeast. Members of the Faculty on the visiting staff:

Professor Richardson, Clinical Laryngology and Otology; Professor Shute, Clinical Ophthalmology.

Episcopal Eye, Ear, Throat, and Nose Hospital, Fifteenth street between L and M streets, northwest. Members of the Faculty on the visiting staff:

Professor RICHARDSON, Clinical Otology and Laryngology; Dr. McKIMMIE and Dr. DYE, Clinical Otology and Laryngology.

Lutheran Dispensary, Fourteenth and N streets, northwest. Member of the Faculty on the visiting staff:

Professor BUTLER, Clinical Ophthalmology.

Government Hospital for Insane, Anacostia, D. C. Members of the Faculty on the visiting staff:

Professor WHITE, Mental Diseases.

Casualty Hospital, Massachusetts avenue, northeast. Members of the Faculty on the visiting staff:

Professor WELLINGTON, Clinical Surgery; Dr. FRANKLAND, Clinical Gynecology; Dr. NOBLE P. BARNES, Clinical Medicine.

LABORATORIES.

The different laboratories of the Department are all modern and equipped with the necessary apparatus for thorough work.

PATHOLOGICAL MUSEUM.

A great many valuable and interesting specimens are contained in the Pathological Museum of this school. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease.

OTHER MUSEUMS.

The Army Medical Museum affords an unrivaled opportunity for studying the conditions met with in military surgery. It contains on exhibition a collection of anatomical and pathological specimens unequaled by any other museum. Other Government museums are the Museum of Hygiene, in connection with the Medical Department of the Navy. The National Museum contains the most complete and best arranged collection of materia medica in the world. The drugs are shown in all their processes of manufacture. The Botanic Gardens, the Smithsonian Instutition, the Fish Commission, the Department of Agriculture all afford opportunities for study both in medicine and its collateral sciences.

THE UNIVERSITY MEDICAL LIBRARY.

The Medical Library is open for study and consultation from 9 a. m. to 10.30 p. m. It contains at present more than 1,400 volumes, and provision is made in the annual library fee charged every student to add to it as published the important new works on medicine. As the library stands at present, it is an excellent working collection for the medical student.

OTHER LIBRARIES.

Washington contains the Library of the Surgeon General's office of the United States Army, the most complete medical library in the world. This library, as all other libraries of the Government, is open to the public between the hours of 9 a. m. and 4.30 p. m. There is also the Library of Congress and the many excellent libraries of the various other Government offices.

FEES AND CONTINGENT EXPENSES.

1. Matriculation fee (payable once)..... $5
2. Annual library fee..... 2
3. Tuition fee per annum, including all charges for materials..... 150
4. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, excepting for courses which do not begin with the terms 2
5. Fee for graduation..... 10

   A deposit of $5 per annum is required of every student to cover loss, breakage, or damage to the property of the school. The amount of such deposit paid in excess of the breakage will be returned.
6. Tuition fee per annum for any year repeated once, or for a fifth year 75

   In addition to the tuition fees for special or repeated laboratory courses, a charge will be made for materials used.
7. Fee for a certificate under the seal of the University..... 2
8. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes, and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as auditors. No matriculation or library fee is charged.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter session, when such withdrawal shall be approved. Applications for the granting of a withdrawal should be

made on the prescribed form to be obtained from the Registrar, and will be received only at the end of a quarter session.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use..... $3
Microscope for Bacteriological, Pathological, and Clinical Microscopy Laboratory use..... 5

PAYMENT OF FEES.

All fees are to be paid to the Treasurer. Tuition fees are payable quarterly, in advance. Matriculation, library, and laboratory fees are payable in full, in advance.

BOARD AND ROOMS.

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from $25 to $40 a month.

For catalogues, application blanks, and further information, address

THE REGISTRAR,
The George Washington University,
Washington, D. C.

DEPARTMENT OF DENTISTRY.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.....PRESIDENT OF THE UNIVERSITY
J. HALL LEWIS, D.D.S.....Dean and Professor of Prosthetic Dentistry
HENRY C. THOMPSON, D.D.S.....Professor of Operative Dentistry
D. KERFOOT SHUTE, A.B., M.D.....Professor of Anatomy
CHARLES E. MUNROE, Ph.D.....Professor of Chemistry
THOMAS A. CLAYTOR, M.D.....Professor of Materia Medica and Therapeutics
JONATHAN R. HAGAN, D.D.S....Assistant Professor of Materia Medica
JOHN B. NICHOLS, M.D.....Professor of Histology
J. ROLAND WALTON, D.D.S.....Professor of Prosthetic Technics
J. H. P. BENSON, D.D.S.....Professor of Operative Technics
SHEPHERD IVORY FRANZ, Ph.D.....Professor of Physiology
J. J. KINYOUN, M.D., Ph.D..Professor of Bacteriology and Pathology
J. R. DE FARGES, D.D.S.....Professor of Oral Surgery
D. WEBSTER PRENTISS, M.D.....Assistant Professor of Histology
HURON W. LAWSON, M.D.....Assistant Professor of Bacteriology and Pathology
E. G. SEIBERT, M.D.....Assistant Professor of Chemistry
W. F. R. PHILLIPS, M.D.....Assistant Professor of Practical Anatomy
NOBLE P. BARNES, M.D.....Lecturer on Materia Medica
S. H. GREENE, JR., M.D.....Instructor in Anatomy
J. L. RIGGLES, M.D.....Instructor in Anatomy
OTIS D. SWETT, B.S.....Instructor in Chemistry
FREDERICK I. BARTLETT, D.D.S.....Instructor in Crown and Bridge Work and in Prosthetic Technics
ARTHUR B. COOPER, D.D.S.....Instructor in Porcelain Work
CHARLES BASSETT, D.D.S.....Assistant Professor in Charge of the Dental Infirmary
GEORGE B. HEINECKE, M.D.....Assistant Demonstrator of Anatomy
W. A. FRANKLAND, M.D.....Assistant Demonstrator of Anatomy
CADMUS LINDEN ODOR, D.D.S.....Demonstrator of Operative Technics
W. FRANCIS LAWRENCE, D.D.S....Demonstrator of Prosthetic Technic
JOSEPH WOOD POLLOCK, D.D.S..Assistant Demonstrator in the Infirmary
ARTHUR MILLARD TRIVETT, D.D.S.....Assistant Demonstrator in the Infirmary
THOMAS R. WILKERSON, D.D.S.....Assistant Demonstrator in the Infirmary

M. E. Harrison, D.D.S.....Assistant Demonstrator in the Infirmary
W. Winslow Taylor, D.D.S....Assistant Demonstrator in the Dental Infirmary

GENERAL STATEMENT.

The first course of lectures in the Dental School began November, 1887, under the title of "The Columbian University Dental Department." The course then extended over two years of five months each. Two years later the course was extended to seven months; but, this additional time being found inadequate to keep pace with the ever-increasing demand for higher dental education, the course was gradually increased, until now it extends over three years of eight months each.

The academic year begins on the last Wednesday in September and ends on the first Wednesday in June. The next session will begin September 25, 1907. Students should register promptly at the office of the Registrar at the beginning of the session, and no student can be received and credited with a full term after ten days from the first lecture. Final examinations are held at the conclusion of the instruction in each subject. The degrees are conferred at Commencement, the first Wednesday in June, the Fall Convocation, and at the Winter Convocation, February 22. For further information communicate with the Dean of the Dental Department or the Registrar of the University.

ADMISSION.

Candidates for matriculation must show that they are fitted by previous education to study dentistry. For this purpose they must present a satisfactory certificate of their attainments from an approved school or college, or they must pass an examination.

Candidates are admitted without examination:

(1) Upon presenting a diploma or certificate of a reputable college conferring on them the degree of A.B. or B.S., or an equivalent degree in the arts and sciences.

(2) Upon presenting a diploma or certificate of graduation from a high school, academy, or preparatory school approved by the University as maintaining an adequate standard.

(3) Upon presenting a certificate of admission to the Freshman class of an approved college.

(4) Upon presenting a certificate of admission to another dental school approved by the University as maintaining an adequate standard.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement for admission to colleges, which is a four-year high school course, or its equivalent, modified to meet the regulations of State Dental Boards. This examination comprises subjects selected from the annexed list equal to 15 units. For admission to the regular course in Dentistry eight (8) of the 15 units are required in the following subjects.

	Units.
English	3
Mathematics	3
Physics	1
Latin	1
Total	8

The other 7 units may be selected from the other subjects. A unit is considered the equivalent of one year's high school work in a subject.

LIST OF SUBJECTS.

English:	Units.
(*a*) Grammar	1
(*b*) Rhetoric and Composition	1
(*c*) Literature—a knowledge of the form, subject-matter, and literary history of prescribed works is required	1

The following are the works prescribed for 1906-07: Burke's Speech on Conciliation, Macaulay's Essay on Addison, Macaulay's Essay on Milton, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Shakespeare's Macbeth. Equivalent reading may be offered.

Latin:	Units.
(*a*) Elementary Grammar	1
(*b*) Cæsar's Commentaries, Books I-IV	1

Greek:	
(*a*) Elementary Grammar	1
(*b*) Xenophon or Homer	1

Modern Languages:	Units.
(*a*) French, translation of easy prose	1
(*b*) German, translation of easy prose	1
History:	
United States	1
English	1
Greek and Roman	1
General	1
Mathematics:	
(*a*) Algebra through quadratics	1½
(*b*) Plane Geometry	1
(*c*) Plane Trigonometry	½
Sciences:	
Physics	1
Chemistry	1
Astronomy	½
Biology	1
Geology	½
Botany	1
Physical Geography	½
Physiology	½

The scope of the different subjects is indicated in standard high school text-books.

Candidates may offer other subjects than those stated in the foregoing list of subjects, and if they are acceptable examinations will be arranged. A candidate may offer certificates of an approved school for work done in any of the foregoing subjects, and will be credited with the units represented by such work. A candidate failing to pass in two of the subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the second-year class. The examinations are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

The examinations for admission will be held in June and September, at the Dental Department. An applicant deficient in either Latin or Physics, or both, may be admitted to the first-year class conditioned in those subjects, but such conditions must be made up during the first year.

COURSE OF INSTRUCTION.

The course of instruction extends through three years of eight months each. The subjects taught during the course are divided as follows:

First year.	Second year.	Third year.
Anatomy.	Operative Dentistry.	Operative Dentistry.
Physiology.	Prosthetic Dentistry.	Prosthetic Dentistry.
Chemistry.	Pathology.	Oral Surgery.
Histology.	Materia Medica.	Orthodontia Technics.
Operative Technics.	Therapeutics.	Operative Technics.
Prosthetic Technics.	Operative Technics.	Prosthetic Technics.
	Prosthetic Technics.	Infirmary Practice.
	Infirmary Practice.	Dental Therapeutics.
	Bacteriology.	

These studies are further described in the following pages.

PROSTHETIC DENTISTRY AND METALLURGY.

J. Hall Lewis, D.D.S.....*Professor*

In this subject the principles involved in the construction of artificial substitutes are exhaustively considered and the lectures supplemented by practical demonstrations of the subjects mentioned. In addition to the more commonly used vegetable bases for artificial teeth, the use of gold, silver, and platinum is thoroughly taught, and bridge work and the construction of appliances for correcting oral irregularities, etc., are carefully considered. The modes of preparation, properties, etc., of the metals and alloys of particular interest to the dentist receive special attention.

The instruction is thoroughly practical, with the purpose of preparing the student for the actual every-day practice of prosthetic dentistry.

OPERATIVE DENTISTRY, DENTAL ANATOMY AND PATHOLOGY.

HENRY C. THOMPSON, D.D.S.....*Professor*

This course embraces lectures on the special anatomy and physiology of the teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling. and extracting teeth receive attention in the lecture-room, and are demonstrated clinically by proficient operators. Extended consideration is given to dental pathology and therapeutics.

CHEMISTRY.

CHARLES E. MUNROE, Ph.D.....*Professor*
E. G. SEIBERT, M.D.....*Assistant Professor*
OTIS D. SWETT, B.S.....*Instructor*

The instruction in this subject embraces:

A short discussion of the principles of Physics in their relation to Chemistry, the principles of chemical philosophy. and the laws of chemical combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in dentistry; Organic Chemistry, with special attention to those organic compounds that are of practical use; laboratory instruction in the determination of acids and bases, analyses of alloys, etc.

PHYSIOLOGY.

SHEPHERD IVORY FRANZ, Ph.D.....*Professor*
H. C. ELLIOTT, M.D.....*Assistant Professor*
TRUMAN ABBE, M. D.....*Assistant Professor*

The subject is fully covered the first year by a course of lectures, and these lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in detail. Emphasis is given to principles that have a known practical value.

MATERIA MEDICA AND THERAPEUTICS.

THOMAS A. CLAYTOR. M.D.....*Professor*
JONATHAN R. HAGAN, D.D.S.....*Assistant Professor*
NOBLE P. BARNES, M.D.....*Lecturer on Materia Medica*

Instruction in this subject extends through the first two years, and embraces:

The study of crude drugs and their preparations and the art of pre-

scribing; the physiological action of drugs in the human system; the practical application of drugs and other therapeutical agencies to the prevention and cure of diseases and the relief of suffering, together with their antidotal relation to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

ANATOMY.

D. Kerfoot Shute, A.B., M.D.....*Professor*
W. F. R. Phillips, M.D.....*Assistant Professor*
Geo. B. Heinecke, M.D.....*Assistant Demonstrator*
W. A. Frankland, M.D.....*Assistant Demonstrator*
S. H. Greene, Jr., M.D.....*Instructor*
J. L. Riggles, M.D.....*Instructor*
Glen I. Jones, M.D.....*Assistant Demonstrator*

The instruction in Anatomy is given in a graded course of lectures, recitations from prescribed text-books, and especially by practical work in the dissection of the cadaver. The lectures are illustrated by the use of dry and wet dissections of the cadaver, by models, diagrams, charts, and sciopticon views.

Practical work in osteology and in dissection of the head are of fundamental importance. For the study of these subjects the class is divided into sections in order to make the instruction as practical as possible. The bones of the skeleton are placed in each student's hands, and he is instructed and quizzed upon all their important features.

ORAL SURGERY.

J. R. De Farges, D.D.S.....*Professor*

This subject includes lectures on general surgery, surgical bacteriology, inflammations, abscess, gangrene and necrosis, the reduction of luxations and fractures and all the latest appliances for their proper retention; diagnosis and treatment of the maxillary sinus, plastic operations for correction of cleft palate and hare lip, treatment of wounds, shock and collapse; also the origin, classification, growth, and removal of tumors of the face, mouth, and jaw.

HISTOLOGY.

JOHN B. NICHOLS, M.D.....*Professor*
D. WEBSTER PRENTISS, M.D.....*Assistant Professor*
HENRY M. JEWETT, M.D.....*Assistant Instructor*
C. L. DAVIS, M.D.....*Assistant Instructor*

The course in Histology consists in a systematic presentation of the subject of the minute anatomy of the various parts of the body, especial attention being devoted to the histology of the teeth and neighboring structures. The subject is presented partly by systematic lectures, and more especially by the practical study by the individual students of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory. The projection microscope affording valuable aid in illustrating and presenting the subject, is constantly used.

BACTERIOLOGY AND PATHOLOGY.

J. J. KINYOUN, M.D., Ph.D.....*Professor*
HURON W. LAWSON, M.S., M.D.....*Assistant Instructor*
WILBUR R. BRANDENBERG, M.D.....*Assistant Instructor*

The course begins with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the student required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practiced by the students, after which the most important pyrogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

OPERATIVE TECHNICS.

J. H. P. Benson, D.D.S.....*Professor*
Cadmus L. Odor, D.D.S.....*Assistant*

This subject is taught by lectures, illustrated by enlarged models and drawings, together with demonstrations of instruments and materials. The students perform exercises in manipulative procedure under the direction of the instructors.

The subjects embraced in the course consist, first, of the study of dental nomenclature, that the student may acquire an understanding of the technical terms used in the course of his dental studies. This is followed by descriptive dental anatomy and the forms and surface markings of each tooth studied, the natural teeth, as well as enlarged models and drawings, being used for the purpose. Each student is required to make various sections of the teeth for the thorough study of the pulp chambers and root canals and their relations to the external surfaces of the teeth.

That tooth-forms may be more perfectly impressed upon the mind of the students, each one is required to carve a tooth of the several classes, as incisor, cuspid, bicuspid, and molar, in bone or artificial ivory, representing the actual form and size of the natural organ. Cavities are classified and illustrated by drawings and models, followed by their preparation and filling in technic forms by the student. Treating and filling root canals is given full attention, the students performing operations of this kind upon natural teeth mounted for the purpose.

All work, in its relation to operative dentistry, is given the necessary consideration to fit the student for meeting, as far as possible the actual requirements of the infirmary. The operations in the technic department require a large number of natural teeth and a sufficient supply is difficult to obtain. It will, therefore, be to the interest of students if they will bring with them all the extracted teeth they can procure.

ORTHODONTIA.

J. Roland Walton, D.D.S.....*Professor*
Charles Bassett, D.D.S.....*Instructor*

Orthodontia is taught by lectures and practical work in the Infirmary.

Junior year Orthodontia is a technical course with such lectures and demonstrations as will enable the student to perform the Infirmary work. The Senior year is a review of the Junior studies with advanced lectures upon the irregularities of the teeth, local and constitutional. Each student is required to make a number of appliances upon models and practically correct cases of irregularity.

CROWN AND BRIDGE WORK.

W. Francis Lawrence, D.D.S.....*Instructor Senior Class*
Allen S. Wolfe, D.D.S.....*Instructor Junior Class*
Frederick I. Bartlett, D.D.S.....*Instructor Freshman Class*

Instruction in this course is systematically given by lectures and clinics. The course in technique extends through the Freshman, Junior, and Senior years.

PROSTHETIC TECHNICS.

W. Francis Lawrence, D.D.S.....*Instructor Senior Year*
Allen S. Wolfe, D.D.S.....*Instructor Junior Year*
Frederick I. Bartlett, D.D.S.....*Instructor Freshman Year*

The technic laboratories are thoroughly equipped for their particular work. The course in prosthetic technics extends through the Freshman, Junior, and Senior years.

The first year is a technical course. The students are taught the proper equipment of a dental laboratory; the preparation of the mouth for dentures; methods of taking impressions of the mouth and manipulation of the various impression materials; the preparation and mounting of models; selection and artistic arrangement of teeth; the construction of plastic dentures with general details.

In the Junior class the course is a review of the Freshman year with extended technical work, embracing a practical course in the swaging of the various metals, as taking impressions, making models and dies, swaging, rimming, attaching teeth by rubber, and in general construction of metal dentures, crown and bridge work.

The Senior year is a practical course, embracing the swaging of plates, teeth attached by soldering, clasps, porcelain work, advanced bridgework, removable bridges, and the detailed construction of all work in prosthetic dentistry.

PORCELAIN WORK.

Arthur B. Cooper, D.D.S.....*Instructor*

Students are taught the principles and practice of inlay work, porcelain crowns, high and low fusing bodies, the use of the electric and gas furnaces.

THE DENTAL INFIRMARY.

Charles Bassett, D.D.S.....*Demonstrator in Charge*
J. Winslow Taylor, D.D.S.....*Demonstrator*
Joseph Wood Pollock, D.D.S.....*Demonstrator*
Arthur Millard Trivett, D.D.S.....*Demonstrator*
Thomas R. Wilkerson, D.D.S.....*Demonstrator*

The Infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of clinical material is readily available. In fact, as many patients present themselves as can possibly be attended to by the students. It is under the immediate supervision of the Demonstrator in charge, who is present from 1 until 6 o'clock each week day.

TEXT-BOOKS AND WORKS OF REFERENCE.

(The works first named and in *italics* are preferred.)

Anatomy.—*Cunningham's Text-Book of Anatomy; Cunningham's Manual of Practical Anatomy;* Dental Anatomy, Black's.

Physiology.—Raymond's Human Physiology.

Chemistry.—*Simon's Chemistry.*

Materia Medica.—*H. C. Wood's Therapeutics;* Hare's Practical Therapeutics; A. A. Stevens' Modern Materia Medica and Therapeutics; Culbreth's Materia Medica and Pharmacy; National Dispensatory.

Prosthetic Dentistry.—*The American Text-Book of Prosthetic Dentistry;* Essig's Dental Metallurgy.

Operative Dentistry.—*Harris' Principles of Practice;* Tome's Dental Anatomy and Surgery; Taft's Operative Dentistry; American System of Dentistry—Litch.

Oral Surgery.—Marshall's Oral Surgery; Grant's Oral Surgery.

Histology.—Nichols, Böhm and Davidoff.

Orthodontia.—Talbot, Irregularities of the Teeth; Angle, Treatment of Malocclusion of the Teeth and Fractures of the Maxillæ; Jackson, Orthodontia.

GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of eight months duration, and three courses of clinical instruction in this Department, during the regular winter term and in separate years. Students are examined at the end of the regular course upon all subjects taught them during that course. Should the student fail in his examination in course, he may be re-examined in the fall. All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular course. They may register at any time during the nine months Infirmary course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate for graduation must be examined upon all subjects taught in this Department, and before the examination he must perform

operations upon the natural organs in the Infirmary, and present the Museum a well-constructed specimen of dental mechanism made by himself in the dental laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

The degrees are conferred by The George Washington University, incorporated by Act of Congress of the United States.

PRIZES.

Faculty Prize.—A prize will be given by the Faculty to the graduate passing the best examination in all branches and having the best Infirmary record.

COURSES IN ARTS AND SCIENCES.

Students taking a full course for a degree may be admitted without additional fee, except laboratory fees, to courses for which they are qualified, in the Department of Arts and Sciences, the aggregate of such courses not to exceed six hours per week.

LOCATION.

The Dental Building is No. 1325 H street, N. W. It is within half a square of all lines of street cars going to every part of the city.

The Dean may be seen personally at 1121 Vermont avenue on any week day from 3 to 4 p. m., and also at the Dental Building, 1325 H street, N. W., on Tuesday, Thursday, and Saturday of each week at 4.30 p. m.

FEES AND CONTINGENT EXPENSES.

1. Matriculation fee (payable once)	$5
2. Annual library fee	2
3. Tuition fee per annum, including all charges for materials	150
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5. Fee for graduation..... $10
   A deposit of $5 per annum is required of every student to cover loss, breakage, or damage to the property of the school. The amount of such deposit paid in excess of the breakage will be returned.
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   In addition to the tuition fees for special or repeated laboratory courses, a charge will be made for materials used.
7. Fee for a certificate under the seal of the University..... 2
8. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as auditors. No matriculation or library fee is charged.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form and from the end of the current quarter session when such withdrawals shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form, to be obtained from the Registrar, and will only be received at the end of a quarter session.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rentals:

Microscope for Histological Laboratory use..... 3
Microscope for bacteriological, pathological, and clinical microscopy laboratory use 5

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All fees are to be paid to the Treasurer. Tuition fees are payable quarterly, in advance. Matriculation, library, and laboratory fees are payable in full, in advance.

BOARD AND ROOMS.

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For catalogues, application blanks and further information, address

THE REGISTRAR,
The George Washington University,
Washington, D. C.

DEPARTMENT OF LAW.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.....PRESIDENT OF THE UNIVERSITY
WILLIAM REYNOLDS VANCE, Ph.D., LL.B.....Dean of the Faculty and Professor of Law
JOHN M. HARLAN, LL.D.....Professor of Law
DAVID J. BREWER, LL.D.....Professor of Law
MELVILLE CHURCH, LL.M.....Professor of the Law of Patents
WALTER C. CLEPHANE, LL.M.....Professor of Law
EDWIN C. BRANDENBURG, LL.M.....Professor of Law
ARTHUR PETER, LL.M.....Professor of Law
HENRY P. BLAIR, LL.M.....Professor of Law
STANTON J. PEELLE, LL.D.....Professor of Law
JOHN PAUL EARNEST, A.M., LL.M.....Professor of Law
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.....Professor of Law
JAMES BROWN SCOTT, M.A., J.U.D.....Professor of Law
WILLIAM CULLEN DENNIS, A.M., LL.B.....Professor of Law
EDWARD SAMPSON THURSTON, A.M., LL.B.....Professor of Law
WENDELL PHILLIPS STAFFORD, LL.D.....Professor of Law
JOSIAH A. VAN ORSDEL, LL.D.....Professor of Law
JOSHUA REUBEN CLARK, JR., B.S., LL.B....Assistant Professor of Law
JOHN WILMER LATIMER, LL.B.....Clerk of the Moot Court
ALFRED BUHRMAN.....Assistant Clerk of the Moot Court
OTIS D. SWETT, B.S., LL.M.....Secretary

COURT OF APPEALS.

WILLIAM F. MATTINGLY, LL.D.....Chief Justice
JOHN B. LARNER, LL.B.....Associate Justice
A. A. HOEHLING, JR., LL.B.....Associate Justice

GENERAL STATEMENT.

This Department, established in 1865, is the oldest school of law in the city of Washington. Its course of instruction for the degree of Bachelor of Laws, originally requiring but two years, was gradually expanded, until, in 1898, in accordance with the recommendation of the American Bar Association, it was increased to three years. The Faculty has also shown a gradual increase in numbers commensurate with the expansion of the course and the growing number of students in attendance. Beginning with 1903, the Board of Trustees adopted the policy of placing most of the important topics of substantive law under the charge of trained professional teachers giving their whole time to the

work of legal instruction. Of these there are now four, and one additional professor, devoting his entire time and energy to the Law School, will be selected at the close of the present session. Those branches of the law connected with practice will continue to be under the charge of professors who are actively engaged in the administration of the law either at the Bar, or on the Bench.

In 1877 a year of graduate work, leading to the degree of Master of Laws, was added to the course of instruction offered, and in 1905 a special graduate course of three years, leading to the degree of Doctor of Jurisprudence, was established. Work for this degree is now carried on by members of the Law Faculty under the general direction of the University Faculty of Graduate Studies. A special course in Patent Law was added in 1895.

In June, 1898, an ordinance was adopted by the Board of Trustees formally establishing as a separate department of the University the Department of Jurisprudence and Diplomacy. This Department was opened on November 15, 1898.

In 1904, by the authority of the Board of Trustees, a new adjustment of graduate work in the University was made, resulting in the establishment of the Departments of Law and of Politics and Diplomacy (now called the College of the Political Sciences), the former embracing the undergraduate course in municipal law and graduate courses in the broader fields of general law, and the latter graduate and undergraduate courses in the political sciences, special attention being given to diplomacy.

SEPARATE COURSES FOR ALL-DAY AND AFTERNOON STUDENTS.

Since 1903 the work of the Law School has gradually been transferred from the late afternoon hours to the forenoon. Beginning with the session 1908-1909, the work offered to all-day students will be practically confined to the earlier part of the day. To these students is offered a course consisting of fourteen hours a week for three years, leading to the degree of Bachelor of Laws. (LL. B.).

To meet the needs of those students whose employment in the Government service, or elsewhere, prevents their attendance before 4.30 in the afternoon, there has been established an afternoon course consisting of ten hours a week for three years and leading to the degree of Bachelor of Law (B.L.). This course offered to afternoon students satisfies the requirements of the Association of American Law Schools, of which this school is a member.*

*This distinction between the degrees of LL.B. and B.L. is in accordance with the recommendation of the Committee on Legal Education of the American Bar Association. See Report American Bar Association (1906) p. 496.

Students who have received the degree of B.L. and are otherwise properly qualified may, upon completing a fourth year of twelve hours a week in the afternoon, receive the degree of LL.B.

LOCATION.

All classes in the Department of Law are held in Law Lecture Hall, situated on H street, adjoining the main University building, at the corner of Fifteenth street. This hall, dedicated on January 3, 1899, was especially designed for the work of this Department. It is commodious and well equipped with lecture-rooms, Moot Court rooms and offices, and contains the law library, with a conference-room adjoining.

ACADEMIC YEAR.

The academic year extends through more than eight months, beginning on the last Wednesday in September and ending on the second Wednesday in June, and is divided into two half-years, the second half-year beginning on the first day of February. Since most of the courses given during the first half-year are completed before the beginning of the second half-year, it is possible for a student to enter on the 1st of February of any year and be graduated three years from that date, receiving his degree at the Winter Convocation, held on February 22d of each year.

Lectures begin promptly on the first day of the term, and students applying for admission at a later day will be admitted only upon showing good cause for the delay and by special action of the Faculty.

ADMISSION.

1. For the Degree of Bachelor of Laws (LL.B.).

Applicants for admission as candidates for the degree of Bachelor of Laws must be at least eighteen years of age and must have had educational training sufficient to satisfy the entrance requirements of the Department of Arts and Sciences of the University. In order to satisfy these requirements, which are set out at length in the General Catalogue of the University at pp. 35 *ff.*, students must present credits aggregating 15 units, which are broadly equivalent to a four years' high school course. All applications for admission should be addressed to the Registrar of the University, who will, upon request, furnish proper blanks and detailed information as to entrance examinations.

Advanced Requirements. After the session of 1908-1909, no student will be admitted to regular standing as a candidate for this degree unless he shall have successfully completed two years of undergraduate work in an approved institution of collegiate rank. Applicants who have completed a high school course may, however, at the discretion of

the Faculty, be admitted as special students. Such special students may qualify for graduation by attaining during the entire course an average grade of B or better.

2. For the Degree of Bachelor of Law (B.L.).

Applicants for admission as candidates for this degree must satisfy the same requirements as those now demanded of candidates for the LL.B. degree. The provision for advanced requirements, however, does not apply to candidates for this degree.

3. For the Degree of Master of Laws.

Candidates for the degree of Master of Laws must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution substantially complying with the requirements of the Association of American Law Schools, of which this school is a member.

4. For the Degree of Master of Patent Law.

Only those students who are graduates of an approved law school or members of the bar in good standing will be admitted as candidates for the degree of Master of Patent Law.

5. For the Degree of Doctor of Jurisprudence.

No student will be admitted as a candidate for a degree of Doctor of Jurisprudence unless he shall hold a baccalaureate degree conferred by some institution of approved standing after the completion of a liberal course of undergraduate academic study, and possess a reading knowledge of Latin, French, and German. At the discretion of the Faculty, however, other languages may be substituted when the character of the work undertaken is such as to warrant it. The right is reserved to the Faculty of Graduate Studies to decide in all cases whether the applicant has given sufficient evidence that his antecedent training fulfils these requirements. In addition, the candidate must hold the degree of Bachelor of Laws from this University or from some other institution requiring equivalent work as a prerequisite to that degree.

6. Special Students.

Persons who for any reason do not qualify as candidates for a degree may, on the recommendation of the Faculty and with the assent of the professors whose courses they elect to take, be admitted as special students.

ADVANCED STANDING.

Students may be admitted to advanced standing in the second or third year classes upon satisfying the requirements for the work of the preceding year or years. These requirements may be met by presenting certificates from other law schools of accredited standing showing that the student has successfully completed equivalent courses, or by passing

the regular examinations set for that purpose at the beginning of the term, after showing that he has pursued a course of study in the subjects upon which he is examined covering at least as many hours as are required for such subjects in this University.

All examinations that may be required of applicants for advanced standing are held during the first week of each session.

HOURS FOR LECTURES.

In the all-day course, leading to the degree of Bachelor of Laws (LL.B.), the greater part of the instruction will be given between the hours of 9.00 a. m. and 1.00 p. m.

In the afternoon course, leading to the degree of Bachelor of Law (B.L.), instruction will be given between the hours of 4.50 and 6.30 in the afternoon.

Instruction in the fourth year's work required of holders of the degree of Bachelor of Law (B.L.) to obtain the degree of Bachelor of Laws (LL.B.), will also be in the afternoon between 4.50 and 6.30.

The courses open to candidates for the degree of Master of Laws (LL.M.) will, as a general rule, be given in the afternoon, though a number of the forenoon courses may be elected as hereinafter indicated, subject to the approval of the Dean.

METHOD OF INSTRUCTION.

Instruction in the class-room is based upon the study and discussion of cases. In some of the courses students are required to read parallel assignments in text-books.

In conducting the discussion of cases in the class-room every effort is made to lead the student to a clear understanding of the fundamental legal principles that may be involved, and to afford him scientific training in accurate methods of study and of reasoning along legal lines. Students are also required to submit written briefs upon doubtful points of law, to draw up contracts, conveyances, and other papers when the nature of the subject in hand is such as to make exercises of this kind useful in giving accurate instruction.

All subjects involving the adjective law are in charge of professors who are engaged in active practice. The general principles of these subjects, taught in the same manner as indicated above, are developed by practice before the Moot Courts.

UNDERGRADUATE PROFESSIONAL COURSES.

Undergraduate students in Columbian College upon the completion of forty-five units of credit may take the first year's work of the course for Bachelor of Laws, crediting them fifteen units in the College, on the completion of which they may receive the College degree.

COURSES OF INSTRUCTION.

A. Leading to the Degree of Bachelor of Laws (LL.B.).

The course of instruction leading to the degree of Bachelor of Laws extends through a period of three years. A minimum of forty-two hours' work will be required of all students hereafter entering the Department, except that regular students registered prior to 1908 will be permitted to qualify for their degrees upon the completion of the course as required at the time of their entrance.

FIRST YEAR SUBJECTS.

First Half-Year.

Contracts. Professor Scott. Three hours a week. Williston's Cases on Contracts.

Constitutional Law. Professor Harlan. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

Torts. Professor Thurston. Five hours a week. Ames & Smith's Cases on Torts.

Domestic Relations. Professor Blair. Two hours a week. Long on Domestic Relations.

Criminal Law. Professor Earnest. Two hours a week. Clark on Criminal Law and Beale's Cases on Criminal Law.

Second Half-Year.

Contracts. Professor Scott. Three hours a week. Williston's Cases on Contracts.

Property. Professor Vance. Four hours a week. Gray's Cases on Property, Volumes I and II.

Constitutional Law. Professor Harlan. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

Criminal Procedure. Professor Earnest. One hour a week. Clark on Criminal Procedure.

Bailments. Professor Peelle. One hour a week. Hale on Bailments.

Agency (including Master and Servant). Professor Blair. Three hours a week. Wambaugh's Cases on Agency.

SECOND YEAR SUBJECTS.

First Half-Year.

Property. Professor Vance. Two hours a week. Gray's Cases on Property, Volumes II and V.

Common Law Pleading and Practice. Professor CLEPHANE. Two hours a week. Tyler's Stephen on Pleading.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Sales. Professor BLAIR. Three hours a week. Burdick's Cases on Sales.

Insurance. Professor VANCE. Two hours a week. Case-book to be announced.

Partnership. Professor PEELLE. One hour a week. Burdick on Partnership.

Equity I. Professor STAFFORD. Three hours a week. Ames' Cases on Equity Jurisdiction.

Second Half-Year.

Property. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes II and V.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Equity Pleading. Professor CLEPHANE. One hour a week. Van Zile on Equity Pleading and Practice.

Suretyship. Three hours a week. Ames' Cases on Suretyship.

Corporations. Professor LORENZEN. Four hours a week. Smith's Cases on Corporations.

Quasi Contracts. Professor THURSTON. Three hours a week. Scott's Cases on Quasi Contracts.

THIRD YEAR SUBJECTS.

During the session of 1908-09 third-year students may select from the following courses such subjects as, together with the required Moot Court work, will make up the required minimum of twelve hours a week. Such students are permitted, however, subject to the approval of the Dean, to choose not more than two of the courses offered to the fourth-year students. See p. 176.

Elections of courses to be taken must be made in all cases within ten days after the beginning of the semester in which such courses are given.

First Half-Year.

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Property III. Professor VANCE. Three hours a week. Gray's Cases on Property. Vols. III and IV.

Mortgages. Professor CLARK. Three hours a week. Wyman's Cases on Mortgages.

Conflict of Laws. Professor LORENZEN. Four hours a week. Case-book to be announced.

Bills and Notes. Professor LORENZEN. Three hours a week. Case-book to be announced.

Second Half-Year.

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Trusts. Professor THURSTON. Three hours a week. Ames' Cases on Trusts.

Wills and Administration. Professor PETER. One hour a week.

Municipal Corporations. Professor DENNIS. Two hours a week. Smith's Cases on Municipal Corporations.

Organization and Management of Corporations. Professor CLEPHANE. One hour a week. Clephane on the Organization and Management of Corporations.

Equity II. Professor STAFFORD. Three hours a week. Ames' Cases on Equity Jurisdiction.

Bankruptcy. Professor Brandenburg. Two hours a week. Brandenburg on Bankruptcy.

B. LEADING TO THE DEGREE OF BACHELOR OF LAW (B.L.).

The course of instruction leading to the degree of Bachelor of Law extends through a period of three years. A minimum of thirty hours' work will be required of all candidates for this degree. This course, covering the fundamental subjects of the law, is intended to prepare students for admission to the bar in any of the States or Territories of the United States.

Third-Year Afternoon students will be required to complete the work in Moot Court and Equity and, in addition, at least three hours' work from the subjects scheduled below. The remaining work required of these classes may be freely elected from courses not previously taken.*

FIRST YEAR SUBJECTS.

First Half-Year.

Contracts. Professor SCOTT. Three hours a week. Williston's Cases on Contracts.

Constitutional Law. Professor HARLAN. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

Torts. Professor THURSTON. Five hours a week. Ames & Smith's Cases on Torts.

* Courses will be duly scheduled for fourth-year afternoon students in the session of 1909–10.

Second Half-Year.

Contracts. Professor SCOTT. Three hours a week. Williston's Cases on Contracts.

Property. Professor VANCE. Four hours a week. Gray's Cases on Property, Volumes I and II.

Constitutional Law. Professor HARLAN. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

Bailments. Professor PEELLE. One hour a week. Hale on Bailments.

SECOND YEAR SUBJECTS.

First Half-Year.

Property II. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes II and V.

Domestic Relations. Professor BLAIR. Two hours a week. Long on Domestic Relations.

Common Law Pleading and Practice. Professor CLEPHANE. Two hours a week. Tyler's Stephen on Pleading.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Partnership. Professor PEELLE. One hour a week. Burdick on Partnership.

Criminal Law. Professor EARNEST. Two hours a week. Clark on Criminal Law and Beale's Cases on Criminal Law.

Second Half-Year.

Property. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes II and V.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Equity Pleading. Professor CLEPHANE. One hour a week. Van Zile on Equity Pleading and Practice.

Corporations. Professor LORENZEN. Four hours a week. Smith's Cases on Corporations.

Criminal Procedure. Professor EARNEST. One hour a week. Clark on Criminal Procedure.

THIRD YEAR SUBJECTS.

First Half-Year.

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Equity I. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction. (Omitted in 1908-09.)

Property III. Professor VANCE. Three hours a week. Gray's Cases on Property, Volumes III and IV.

Mortgages. Professor CLARK. Three hours a week. Wyman's Cases on Mortgages.

Bills and Notes. Professor LORENZEN. Three hours a week. Case-book to be announced.

Second Half-Year.

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Wills and administration. Professor PETER. One hour a week. One hour a week.

Quasi Contracts. Professor THURSTON. Three hours a week. Scott's Cases on Quasi Contracts.

Equity II. Professor STAFFORD. Three hours a week. Ames' Cases on Equity Jurisdiction.

Organization and Management of Corporations. Professor CLEPHANE. One hour a week. Clephane on the Organization and Management of Corporations.

C. LEADING TO THE DEGREE OF MASTER OF LAWS.

Students admitted as candidates for the degree of Master of Laws are required to elect courses, not previously taken, covering a minimum of ten hours a week. These may be freely elected from the subjects given below, which are considered by the Faculty especially suited to the needs of students who have already completed an undergraduate course in law. The student may, however, choose as electives other subjects offered by the Faculty of Law which he has not taken during his undergraduate course, but the subjects so taken may not exceed in the aggregate three hours a week during the year, except by special permission of the Faculty.

The practice work offered in the fourth year Moot Courts may be taken and will be counted as two hours of required work.

FOURTH YEAR SUBJECTS.

Comparative Constitutional Law. Professor WILLOUGHBY. Two hours a week. One-half year.

International Law I. Professor BREWER. One hour a week. One-half year. Taylor's International Law.

International Law II. Professor SCOTT. Three hours a week. One year. Scott's Cases on International Law.

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. One year.

Interstate Commerce Law. President NEEDHAM. Two hours a week. One-half year.

Taxation. Professor WILLIS. Two hours a week. One-half year. Goodnow's Cases on Taxation.

Water Rights and Irrigation. Professor VAN ORSDEL. One hour a week. One-half year.

Federal Procedure. Professor BRANDENBURG. Two hours a week. One-half year.

Admiralty. Professor SCOTT. Two hours a week. One-half year. Ames' Cases on Admiralty.

Extraordinary Legal Remedies. Professor DENNIS. Two hours a week. One-half year. Roberts' Cases on Extraordinary Legal Remedies.

Legal Tactics. Professor CLEPHANE. One hour a week. One-half year.

Civil Law I—Roman Law. Professor LORENZEN. Two hours a week. One-half year. Sohm's Institutes of Roman Law.*

Civil Law II—Spanish-American Law. Professor LORENZEN. Two hours a week. One-half year.†

D. LEADING TO THE DEGREE OF MASTER OF PATENT LAW.

A special course in Patent Law and Patent Law Practice is given by Professor CHURCH. The purpose of this course is to prepare those taking it for practice in all matters involving the law of patents. The course extends throughout one year, with two lectures or sessions of the Moot Court each week.

E. LEADING TO THE DEGREE OF DOCTOR OF JURISPRUDENCE.

The work for this degree is similar in character, method, and scope to that required for the degree of Doctor of Philosophy, and is under the control of the University Faculty of Graduate Studies. See the General Catalogue of the University, pp. 28 *ff.*

ELECTIVE COURSES IN OTHER DEPARTMENTS OF THE UNIVERSITY.

Students taking a full course for a degree may be admitted, without additional fee except laboratory fees, to courses for which they are qualified in the Departments of Arts and Sciences and of Politics and Diplomacy, provided such courses do not exceed in the aggregate six hours a week.

COURSES IN PRACTICE.

A. MOOT COURT WORK.

1. *Third Year:*

Particular stress is laid upon Moot Court Work. Aside from the practice court connected with the course in Patent Law, there are four courts in which the candidates for the degree of Bachelor of Laws pur-

*Students electing Roman Law should possess some knowledge of Latin.

†Students electing Spanish-American Law should possess a reading knowledge of Spanish and have had previous instruction in Roman Law.

sue their work. Three of these are *nisi prius* courts and are presided over by members of the Washington Bar in active practice. The fourth is a Court of Appeals to review the cases tried in the courts of first instance. This court also is composed of members of the Washington Bar.

Every third-year student before receiving the degree of Bachelor of Laws is required to prepare the pleadings in and prosecute to judgment the required number of cases in the *nisi prius courts,* with the privilege of appeal to the appellate tribunal. At least two hours in each week during the year must be spent by each third-year student in active participation in Moot Court work in the court-room to which he is assigned.

Statements of facts are furnished, such as would be related to a lawyer in active practice by his client. Each student must determine whether or not upon such facts the particular case in hand is one of common-law or equitable cognizance. He must then frame his pleadings, serve his writs, and answer his adversary's pleadings until issue is joined in legal manner, after which the case is brought on for hearing in strict accordance with the rules of actual practice. Juries are empaneled in accordance with settled legal procedure, witnesses are examined and cross-examined, and the case conducted through all the various stages of the trial or hearing down to and including the judgment or decree, after which, should the case be appealed, it must be carried through the appellate court, involving the preparation of the record on appeal, briefs of counsel, etc.

2. *Fourth Year:*

The same facilities for Moot Court work as are described above are afforded in the course leading to the degree of Master of Laws. In this course, however, the nature of the cases assigned is somewhat different, involving, in addition to the ordinary cases at common law or in equity, cases of a special character, such as habeas corpus, certiorari, quo warranto, injunction, mandamus, extradition, replevin, attachment, etc.

3. *Officers and Equipment:*

The clerk of the Moot Court was formerly, and the assistant clerk is now, one of the assistant clerks of the Supreme Court of the District of Columbia, but his assistants in each court-room are chosen from the student body, from whose ranks are also drawn the criers, jurors, and other officials, thus giving to the students the benefit of practice in administrative judicial machinery. The Moot Court is to all intents and purposes an actual court. The rooms in which the sessions are held are fitted up with judges' benches, clerks' desks, jury-boxes, and counsel table, and from the time the crier announces that the court is in session until he announces its adjournment the procedure is identical with that of a regular judicial tribunal.

It is believed that any student who gives the proper attention to this feature of the law curriculum will be enabled to go out from this institution and creditably try cases in court, although he may never have been in an actual court-room.

A careful record is kept of the work of each student, both as to his pleadings and his conduct of the case in court, and the ratings thus given determine, in connection with his ratings upon other subjects, whether or not he is entitled to a degree.

B. Legal Tactics.

Every young lawyer entering upon his professional career is desirous of availing himself of the experience of an older practitioner and of learning many things which are not taught and cannot be taught from books. It is to meet the needs of this class of men that this course has been inaugurated. It is in charge of a member of the Washington Bar whose practice has been an active one, extending over a period of many years.

A short introductory talk is given upon the relations between attorney and client, including the important subject of fees, after which the student is given the benefit of practical hints upon the manner of starting in practice and opening and furnishing an office, with suggestions as to office systems. Advice is given as to selecting a law library, the best way to find authorities in point, and how such authorities should be used in court.

The student is told how to listen intelligently to his client's grievances; how to draw up the pleadings arising out of these grievances; how to prepare for trial the case thus made, including the work of preparing the evidence; how to try the case and examine and cross-examine witnesses; the manner of making up the record, writing briefs, and conducting the argument on appeal. The subject of professional ethics is discussed. At various times during the year distinguished lawyers are invited to appear and discuss informally special topics of interest to the students.

EXAMINATIONS AND GRADES.

A. Undergraduate Courses.

Regular Examinations.

Written examinations are held at the close of each semester upon those subjects that have been completed during that semester. All students, unless specially excused by the Dean, are required to take the first examination held in any subject after their completion of the course in that subject.

No student, except by special permission of the Dean, will be allowed to take an examination in any subject unless he shall be regularly regis-

tered and have been in regular attendance upon the lectures and have done all the work required in the course of instruction upon that subject.

Grades:

At all examinations, the grading of students will be indicated by the letters A, B, C, D, E, and F, representing, respectively, *excellent, good, satisfactory, fair, conditioned,* and *failed.*

Conditions:

A student receiving the grade of E (*conditioned*), in the regular examination in any course, will be given an opportunity to remove the condition by passing a subsequent examination with the grade of C or better.

The regular examinations for the removal of conditions will be held during the first week of each session. Applications for permission to take any of these examinations must be made to the Dean, in writing, not later than three days before the date for which such examination is scheduled. Candidates for either of the Bachelor's degrees may, by action of the Faculty, be granted special examinations in not more than two subjects carried as conditions during the first semester of their last year, at the end of that semester, and in one subject carried as a condition during the second semester, at the end of that year.

A student receiving the grade of F (*failed*), in any examination, or the grade of D or E in any examination to pass off a condition in any course, will be required to take the course over again before being permitted to take another examination in such course.

Class Standing:

Students having conditions in more than two subjects will not be advanced from one class to another, nor will candidates for a degree be permitted to carry more than one condition into the second semester of the year in which they expect to be graduated. Students may have, however (subject to the provisions above enumerated), an opportunity to remove conditions, imposed during any session, by taking the regular examinations for the removal of conditions at the beginning of the following session, for which no fee is charged.

Students having conditions in more than three subjects will not be allowed to register except upon special permission from the Dean.

Special Examinations:

No special examinations, other than those above provided for, will be granted to any students except those of the graduating class who, for good cause, shall have been excused by the Dean from taking any regular examination during the third year.

Attendance:

Regular attendance is required in all courses; and the examination grade of any student in any course may be withheld and the passing of another examination or the repetition of the course may be required on the sole ground of unsatisfactory attendance.

Election of Courses:

No student shall be allowed to register in courses aggregating more than sixteen hours during any one semester without first obtaining the permission of the Faculty.

Every student who is a candidate for graduation with the degree of Bachelor of Laws in his third year shall take and pass in each semester of his third-year courses aggregating ten hours.

Election of courses to be taken must be made in all cases within ten days after the beginning of the semester in which such courses are given.

B. Graduate Courses.

Examinations in graduate courses will be given at such times and under such conditions as may be designated by the professors in charge.

DEGREES.

1. Bachelor of Laws.

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the subjects required in the entire course of three years and whose attendance and conduct have been satisfactory to the Faculty.

The degree of Bachelor of Laws *with distinction* will be awarded to students whose average percentage in all subjects is equivalent to the grade of A.

2. Bachelor of Law (B.L.).

The degree of Bachelor of Law will be conferred upon students who shall have completed the work prescribed for this degree, and whose attendance and conduct have been satisfactory to the Faculty.

3. Master of Laws.

The degree of Master of Laws will be conferred upon students who have completed the work prescribed for this degree with the grade of C or better and whose attendance and conduct have been satisfactory to the Faculty.

4. Master of Patent Laws.

The degree of Master of Patent Law will be conferred upon students who shall have successfully completed the work of the Patent Law

course and whose attendance and conduct have been satisfactory to the Faculty.

5. Doctor of Jurisprudence.

The degree of Doctor of Jurisprudence is given for graduate work in the science of the law upon the same terms and conditions as the degree of Doctor of Philosophy in the Departments of Arts and Sciences. See pp. 28 *ff.* of the General Catalogue.

LAW LIBRARY AND READING-ROOM.

A well-equipped working library, comprising about 5200 volumes, is open to the students in Law Lecture Hall from 9 a. m. to 10 p. m. Competent librarians are in charge and will give students assistance in looking up subjects and in the use of books.

The Library contains the standard textbooks, the West Reporter system of Federal and State Decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation-room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the Congressional Library and other public libraries.

PRIZES.

A prize offered by the Edward Thompson Company, of a set of the Encyclopædia of Law, first or second edition, or a set of the Encyclopædia of Pleading and Practice, is awarded each year to the senior law student who shall write the best thesis on some legal subject to be assigned by the Faculty.

Three prizes—one of $40, one of $30, and one of $20—are annually given to the respective authors of the best three essays handed in by such members of the Third-Year Class as shall compete for them and shall pass successful examinations.

A prize of $25 in gold, offered by Mr. Fritz von Briesen, called the "Ellsworth Prize," is awarded for the best work done in the Patent Law Course by a student receiving the degree of Master of Patent Laws.

PRIZE ESSAY IN COMPARATIVE LAW.

In order to stimulate interest in the study of Comparative Law, not only in this University but throughout the United States and Canada, a prize of $100.00 is awarded each year to the writer of the best essay on some topic in Comparative Law, to be assigned by the Faculty. Competition for this prize is open to all *bona fide* students regularly matriculated in any law school in the United States, Canada, Mexico, or

Cuba. All essays must be submitted each year on or before March 1, and after they have been passed upon by a committee of one or more persons not connected with this University, the award will be announced on June 1. Essays should be sent to the secretary of the Faculty. The subject assigned for the year 1906-07 was as follows:

A discussion, under English, French, and German law, of the respective rights of parties to a contract entered into under a mistaken apprehension on the part of one or both parties as to its legal effect.

John H. Wigmore, Dean of the Northwestern University Law School, and Samuel Williston, Weld Professor of Law in Harvard Law School, the committee of award for the year 1906-07, awarded the prize to Stanley Rich, LL.B., of Northwestern University.

The following subject was assigned for the year 1907-08:

A comparative treatise upon the rights of one purchasing chattels from a seller who is without title, under the laws of the United States, England, France, and the Spanish-American countries.

The Committee of Award for this year is composed of Ernest Freund, Professor of Law in the University of Chicago, and Señor J. Q. Casasus, of the City of Mexico.

The following subject has been assigned for the year 1907-08:

"Discuss under the laws of the United States, England, France, and Spanish-America, the validity of a stipulation by a common carrier (by sea) exempting him from liability on account of his own negligence, or that of his servants, and the law applicable to such stipulation under the rules of Private International Law."

PUBLIC SPEAKING.

Excellent facilities for training in the art of public speaking are afforded by the two debating societies that have been organized in the Department of Law and Jurisprudence. These societies, known as the Columbian and Needham Debating Societies, meet weekly for debate in Law Lecture Hall. Membership in these societies is entirely optional, but their work is encouraged in every legitimate way by the Faculty, and students are urgently advised to take part in their exercises. During each academic year several intercollegiate debates are held. Membership upon the intercollegiate debating teams is an honor eagerly sought and made the prize to be won in separate preliminary contests. The general conduct of these intercollegiate debates is under the supervision of a committee from the Faculty.

ADMISSION TO THE BAR OF THE DISTRICT OF COLUMBIA.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those

rules the course in the Department of Law of the University is regarded as discharging this requirement.

FEES.

1. Matriculation fee (payable once)	$5
2. Annual library fee	2
3. Tuition fee per annum for each hour taken per week	10
4. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, excepting for courses which do not begin with the terms	2
5. Fee for graduation	10
6. Tuition fee for course in Patent Law	40
7. Fee for a certificate under the seal of the University	2

No change will be made in the fees fixed at the time of registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter session when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar and will only be received at the end of a quarter session.

The library fee will not be charged for the first half-year during which a course is completed in the case of students who enter at the beginning of the second half-year and pay the library fee for that year.

PAYMENT OF FEES.

All fees are to be paid to the Treasurer. Regular tuition fees are payable quarterly in advance. Fees for special courses are payable monthly in advance. Matriculation and library fees are payable in full in advance.

BOARD AND ROOMS.

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from $25 to $40 a month.

For catalogues, application blanks, and further information, address

THE REGISTRAR,
The George Washington University,
Washington, D. C.

NATIONAL COLLEGE OF PHARMACY.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.....PRESIDENT OF THE UNIVERSITY
HENRY E. KALUSOWSKI, M.D., Phar.D., Dean..Professor of Pharmacy
SAMUEL WAGGAMAN, M.D., Phar.D.....Professor of Materia Medica, Botany and Toxicology
WILLIAM F. HILLEBRAND, Ph.D., Phar.D.....Professor of Chemistry and Physics
FREDERICK A. HOLTON, B.S., Phar.D., Professor of Analytical Chemistry
BURTON J. HOWARD, B.S.....Professor of Microscopy
ROBERT N. HARPER, Ph.G.....Professor of Mercantile Pharmacy
C. V. WILLIAMS.....Professor of Mercantile Pharmacy
ALEXANDER MUNCASTER, Phar.D., LL.B., LL.M.....Professor of Pharmaceutical Jurisprudence
HOWARD M. BRADBURY, Phar.D.....Assistant to the Professor of Analytical Chemistry
J. WILTON GRADY, Phar.D., and LOUIS B. CASTELL, Phar.D..Assistants to the Professor of Pharmacy

GENERAL STATEMENT.

The National College of Pharmacy, which is an outgrowth of the Columbian Pharmaceutical Association, organized in April, 1871, was chartered under the provisions of an act of Congress in 1872, and opened its doors to students November 11th of that year. In February, 1906, it became a member of the educational system of The George Washington University, under the charter of the University granted by Congress March 3, 1905, providing for the organization of colleges. The President of the University is *ex-officio* president of the National College of Pharmacy, and the College is represented in the President's Council by its Dean.

The work of the college embraces courses in chemistry, botany, materia medica and toxicology, pharmacy and pharmaceutical laboratory work, analytical chemistry, microscopy, mercantile pharmacy, and pharmaceutical jurisprudence. Three years are required for the completion of the prescribed course.

The new College building is centrally located on I street, northwest, between Eighth and Ninth streets. It is easily reached by either of the four principal street car lines of the city.

SPECIAL COURSES.

Students may select one or more of the branches taught and attend the lectures and laboratory work during the time set apart for such study.

Students taking single tickets are not entitled to take the examinations for the degree conferred by the College.

THE DEGREE.

The degree conferred is *Doctor of Pharmacy.*

QUALIFICATIONS FOR THE DEGREE.

1. The student shall have attended three courses of instruction in Chemistry, Pharmacy, Analytical Chemistry, Materia Medica, Botany, and Toxicology, and two in Microscopy, the last of which must have been in this College; and one course each in Mercantile Pharmacy and Pharmaceutical Jurisprudence.

2. He must have passed a satisfactory examination in each of the branches taught.

3. He must be recommended by the Board of Examiners.

MATERIA MEDICA, BOTANY AND TOXICOLOGY.

Freshman Course.

The first lectures are an introductory to the study of elementary botany, after which follow vegetable histology and plant physiology. The subject-matter of these lectures is thoroughly explained by means of charts, diagrams, and specimens.

Junior Course.

This course is devoted to the consideration of the various theories concerning the vegetable world and the practical results obtained by experienced laborers in this science. The lectures are illustrated by means of the lantern and microscope. A large part of the course is devoted to a consideration of the official organic drugs.

Senior Course.

The lectures are mainly upon the active principles, adulterants, official preparations, therapeutic uses, and doses; after which the organic and inorganic poisons are taken up under three heads: 1st, Corrosive; 2d, Irritant; and 3d, Neurotic Poisons. Under these three divisions are explained briefly their action, detection, and antidote.

PHARMACY.

Freshman Course.

This course is given to the study of the various pharmaceutical processes and operations. Following in the order named are lectures on Metrology, heat, thermometry, evaporation, distillation, fusion, sublimation, calcination granulation, comminution, solution, filtration, clarification, decoloration, precipitation, crystallization, and extraction, during which the various methods used to bring about the desired results will be illustrated.

Junior Course.

During a part of this course the time is given to the application of the processes considered during the Freshman year to pharmacopœial preparations, and such modifications as adapt them to special uses. This includes methods for making solutions of various substances, extracts, pills, tablets, triturates, compressed tablets, capsules, powders, suppositories, plasters, ointments, cerates, and oleates.

The latter part of this course is taken up with the study of official preparations obtained from the elementary bodies beginning with bromine, chlorine, iodine, phosphorus, and sulphur, followed by carbon, boron, silicon, the inorganic acids. potassium, sodium, lithium, ammonium, magnesium, calcium, barium, zinc, aluminum, cerium, cadmium, manganese, iron, chromium, lead, silver, copper, mercury, antimony, arsenic, bismuth, and gold.

Senior Course.

The time during this course is mainly given to the study of compounds chiefly derived from organic matter, and products obtained therefrom, amylaceous and saccharine substances; gulcosides and alkaloids, volatile oils and animal products commonly used in pharmacy, vegetable oils, soaps, resinoids and products from resins.

ANALYTICAL CHEMISTRY.

The instruction in this department is intended to present the chemical tests of the United States Pharmacopœia, with methods for the identification of substances and for the detection of impurities; to instruct him in the methods of assaying and the use of volumetric solutions, and to enable students to analyze any ordinary mixture of inorganic material.

For the purpose of carrying out the work of this department a large, well-equipped laboratory is provided with all the usual water and gas

facilities, and has recently been wired and installed with electric apparatus whereby electro-chemical methods of analysis can be taught and the application of the electric current to the preparation of chemicals by the methods of electro-chemistry can be illustrated before the students. These and other facilities afford students exceptional opportunities to become familiar with the fundamental principles of the science of chemistry.

The first year is devoted to experimental work so arranged as to supplement the lectures in General Chemistry.

The second year covers a systematic course in qualitative analysis in connection with the tests of the United States Pharmacopœia.

The third year is devoted to volumetric analysis by means of the standard solutions of the Pharmacopœia.

GENERAL CHEMISTRY AND PHYSICS.

Inasmuch as the subjects of Analytical Chemistry and Pharmacy are fully provided for in other courses, these lectures are devoted more closely to the fundamental principles and classification which must underlie a thorough and systematic knowledge of Chemistry. Owing to the intimate connection existing between Chemistry and several branches of Physics, a number of lectures illustrating the more important laws and principles of some of these branches precedes the regular course in Chemistry, and others on these subjects with which a prior acquaintance is less important, follow after the student has acquired some knowledge of chemical changes. During the first half of the second year Physics and the non-metallic elements receive consideration, followed during the remainder of the second and a portion of the third year by the metals. The greater portion of the third year is devoted to the exposition of the more important facts, principles, and theories of Organic Chemistry.

MICROSCOPY.

The course of Microscopy gives instruction in the use of the compound microscope as an aid in the study and identification of drugs, and requires full attendance from Junior and Senior students.

The work includes both lectures and laboratory courses, and consists in the examination of plant tissue as illustrated in various vegetable substances most familiar to pharmacists. Special attention is given to the structural characteristics by which one drug can be distingushed from another as well as to the detection and identification of the most common adulterants used.

MERCANTILE PHARMACY AND PHARMACEUTICAL JURISPRUDENCE.

These courses are required in the Senior class only.

FEES.

Matriculation	$5
Tickets for the full year's course of instruction, Freshman or Junior.	70
Tickets for the full year's course of instruction, Senior	80
Single tickets for Chemistry, Materia Medica, Botany and Toxicology, each	15
Single tickets for Analytical Chemistry	20
Single tickets for Practical Pharmacy	20
Single tickets for Microscopy	10
Single tickets for Mercantile Pharmacy	5
Single tickets for Pharmaceutical Jurisprudence	5
Fee for Diploma	10

SCHEDULE.

The thirty-fifth annual session of the College will begin on Wednesday, September 25, 1907, and close on Wednesday, June 5, 1908.

Monday.	Tuesday.	Wednesday.
FRESHMEN.	SENIORS.	FRESHMEN.
Botany. Lectures and Recitations, 10 to 11 a. m.	Microscopy. Lectures, Laboratory Work and Recitations, 6 to 8 p. m.	Physics and General Chemistry. Lectures and Recitations, 6 to 7 p. m.
Pharmacy. Lectures and Recitations, 11 a. m. to 12 m. Recess, 12 m. to 1 p. m.	Mercantile Pharmacy. 8 to 10 p. m. Feb. 12 to End of Term.	Analytical Chemistry. Lectures, Recitations and Laboratory Work, 7 to 11 p. m.
Pharmacy. Laboratory Work, 1 to 4 p. m.	Pharmaceutical Jurisprudence. 8 to 9 p. m.	
JUNIORS.		
Physics and General Chemistry. Lectures and Recitations, 6 to 7 p. m.		
Analytical Chemistry. Lectures, Recitations and Laboratory Work, 7 to 11 p. m.		

SCHEDULE.

Thursday.	Friday.	Saturday.
SENIORS.	SENIORS.	JUNIORS.
Materia Medica and Toxicology.	General and Organic Chemistry.	Botany and Materia Medica.
Lectures and Recitations, 10 to 11 a. m.	Lectures and Recitations, 6 to 7 p. m.	Lectures and Recitations, 10 to 11 a. m.
Pharmacy.	Quantitative Chemical Analysis.	Pharmacy.
Lectures and Recitations, 11 a. m. to 12 m. Recess, 12 m. to 1 p. m.	Lectures and Recitations, 7 to 11 p. m.	Lectures and Recitations, 11 a. m. to 12 m. Recess, 12 m. to 1 p. m.
Pharmacy.		Pharmacy.
Laboratory Work, 1 to 4 p. m.		Laboratory Work, 1 to 4 p. m.
JUNIORS.		
Microscopy.		
Lectures, Laboratory Work and Recitations, 6 to 8 p. m.		

Entrance examination at 1 p. m. on Thursday, September 19, 1907, the lecture-room of the College. Annual examination of Freshmen and Juniors for promotion and of Seniors for graduation begins on Monday, May 11, 1908.

COLLEGE OF VETERINARY MEDICINE.

BOARD OF TRUSTEES.

J. A. T. Hall.
H. Rozier Dulaney.
William Corcoran Eustis.
David E. Buckingham, V.M.D.
John Lockwood, V.S.
John P. Turner, V.M.D.

FACULTY.

Charles Willis Needham, LL.D.....President of the University
_____.....Dean
Charles E. Munroe, Ph.D.....Professor of Chemistry
Shepherd Ivory Franz, Ph.D.....Professor of Physiology
John Lockwood, D.V.S.....Professor of Veterinary Surgery
John P. Turner, V.M.D.....Professor of Theory and Practice of Veterinary Medicine
David E. Buckingham, V.M.D.....Professor of Materia Medica, Therapeutics, and Canine Practice
Robert J. Formad, V.M.D., M.D.....Professor of Comparative Histology and Pathology
J. J. Kinyoun, Ph.D., M.D.....Professor of Bacteriology and Pathology
Adolph Eichorn, D.V.S.....Professor of Meat Hygiene
Albert H. Hassel, M.R.C.V.S.....Professor of Veterinary Zoölogy
George H. Hash, V.M.D., M.D.....Professor of Sanitary Science and National Quarantine
Benjamin T. Woodward. V.M.D.....Professor of Milk Hygiene and Dairy Inspection
Adrian V. Hall, V.M.D.....Professor of Veterinary Anatomy
_____.....Professor of Animal Husbandry and Breeding
Fred. Bryant Gage, M.D.V., Artillery Corps, U.S.A.....Lecturer on Military Veterinary Science
Hulbert Young, V.M.D.....Lecturer on Horse Shoeing and Demonstrator of Anatomy
William P. Collins, D.V.S.....Instructor in Clinical Veterinary Surgery
R. J. Stafford, D.V.M.....Demonstrator of Anatomy

ANNOUNCEMENT.

The organization of a College of Veterinary Medicine under the charter of the George Washington University was authorized by the Board of Trustees, on March 17, 1908. The great demand for the ser-

vices of trained veterinarians by the Federal and State governments and the increasing importance of veterinary science in municipal hygiene show the need of the development of this branch of medical science in Washington in a regularly organized college under University auspices. The headquarters, libraries, laboratories and experimental farms of the Bureau of Animal Industry of the Department of Agriculture are located in the District of Columbia, so that students of the College of Veterinary Medicine may keep closely in touch with the most recent investigations in veterinary science. The Administration Building and two hospital buildings of the College are located at 2113-2115 Fourteenth Street, N.W. In this building are the Dean's office, library, pharmacy, and faculty, reception, and operating rooms. The veterinary hospital and the canine hospital are equipped with all appliances for the cure and relief of sick and injured animals.

In addition to demonstrations in the hospitals, students receive clinical instruction in the private hospitals of Professors John P. Turner and John Lockwood. Clinics are held at abattoirs and stockyards under governmental inspection and visits to stock and dairy farms in company with clinical professors are required.

A separate statement regarding the courses of study and the matriculation of students will be published as soon as the organization of this college is completed. This will be mailed upon application to all persons addressing the Registrar of the University.

PART III.

STUDENTS IN THE UNIVERSITY.

DEGREES CONFERRED, MISCELLANEA.

Students in the University.

DEPARTMENT OF ARTS AND SCIENCES.

FACULTY OF GRADUATE STUDIES.

In Attendance.

Name. Legal residence. City address.

Agnew, Paul Gaugh.....Mich. .....3341 17th Street.
B.S., 1901, Hillsdale College.
A.M., 1902, University of Michigan.
Topics—Physics, Mathematical Physics.

Barbour, Alice Maud.....Conn. .....1738 N Street.
B.S., 1893, Wellesley College.
Topics—English, Archæology, English.

Boomhower-Guibord (Mrs.) A...D. C. .....The Ashley.
M.D., 1899, Boston University.
Topic—Experimental Psychology.

Dawson, Edward Matthews, Jr...D. C. .....1746 S Street.
B.S., 1905, The George Washington University.
Topic—Chemistry.

Fitch, Theodore Thornbur .....Iowa .....1233 Girard Street.
B.C.E., 1903, Iowa State College.
Topics—Physics, Mathematics.

Lombard, Charles Russell.....Me. .....608 E Street.
B.S., 1908, The George Washington University.
Topic—Architecture.

Palmore, Julian Ivanhoe.....Va. .....Bureau of Chemistry.
B.S., 1902, M.S., 1904, Virginia Polytechnic Institute.
Topic—Chemistry.

Sammet, Charles Frank.....Mass. .....Y. M. C. A.
B.S., 1903, S.M., 1904, Massachusetts Institute of Technology.
Topics—Steam Engineering, Bacteriology.

Shepherd, William Thomas.....Ark. .....317 Massachusetts Ave.
B.A., 1899, Ph.D., 1904, Gale College.
M.A., 1905, M.S., 1906, University of Oklahoma.
Topics—Psychology, Education.

Simons, Sarah Emma.....D. C. .....1420 N Street.
B.A., 1897, M.A., 1900, Stanford University.
Topic—Education.

Electrical Engineer.

Mortimer, Charles Ward.....Miss. .....1530 I Street.
B.S., 1902, Mississippi College.
M.E., 1907, Cornell University.
Topic—Electrical Engineering.

Name.	Legal residence.	City address.

Steele, Frank Bailey.....W. Va. ....1714 Q Street.
Topic—Electrical Engineering.

Woodward, Mark Rittenhouse...D. C. .....1832 Biltmore Street.
B.S. in E.E., 1905, The George Washington University.
Topics—Electrical Engineering and Mechanical Engineering.

Civil Engineer.

Molitor, David Albert.....Wisc. .....424 Mills Bldg.
B.S. in C.E., 1908, The George Washington University.
Topic—Civil Engineering.

Senior, Thomas Richard.....D. C. .....203 Elm Street.
Topic—Civil Engineering.

Master of Science.

Boughton, Everett William.....N. Y. .....917 16th Street.
B.S. in Chemistry, 1903, Polytechnic Institute of Brooklyn.
Topics—Major, Chemistry; Minors, Bacteriology, Pathology, Physiology.

Coffey, George Nelson.....N. C. .....1225 11th Street.
Ph.B., 1900, University of North Carolina.
Topics—Major, Geology; Minors, Meteorology, Mineralogy.

Davis, John Allen.....Canada ....Y. M. C. A.
S.B., 1907, Massachusetts Institute of Technology.
Topics—Major, Geology; Minors, Paleontology, Mineralogy.

Harrington, Katherine .....D. C. .....Conduit Road.
B.S., 1906, The George Washington University.
Topics—Major, Mathematics; Minors, Physics, Chemistry.

Sanders, Frances .....D. C. .....1360 Kenyon Street.
B.S., 1901, Columbian University.
Topics—Major, Mathematics; Minors, Philosophy, Education.

Smith, Delos Hamilton.....D. C. .....1905 F Street.
B.S. in Architecture, 1906, The George Washington University.
Topics—Major, Architecture; Minors, Archæology, Architecture.

Swett, Otis Dow.....Md. .....Chevy Chase, Md.
LL.B., 1891, B.S., 1904, The George Washington University.
Topics—Major, Chemistry; Minor, Chemistry.

Master of Arts.

Name. Legal residence. City address.

Baker, Anthusa Jeanette.....D. C. .....62 Rhode Island Ave.
A.B., 1907, Wittenberg College.
Topics—Major, Education; Minors, Greek, Latin.

Brooks, Benjamin Talbott.....Ohio .....1626 S Street.
B.A., 1906, Ohio State University.
Topics—Major, Chemistry; Minor, Physics.

Brown, Robson De S.....Iowa .....1346 Monroe Street.
B.A., 1907, The George Washington University.
Topics—Major, Chemistry; Minors, Geology, Botany, Spanish.

Burgdorf, Ada Belle.....D. C. .....512 6th Street.
B.A., 1906, The George Washington University.
Topics—Major, English; Minors, Education, Latin.

Custis, Horace Hatch.....D. C. .....912 15th Street.
B.A., 1906, Johns Hopkins University.
Topics—Major, Chemistry; Minors, Chemistry, Geology.

Deis, John Homer.....D. C. .....119 B Street, S. E.
LL.B., 1902, The George Washington University.
Topics—Major, Philosophy; Minors, Philosophy, History.

Drummond, Mary Walter.....D. C. .....1262 Columbia Road.
A.B., 1905, Woman's College of Baltimore.
Topics—Major, Education; Minors, Psychology, Latin.

Durham, Harry Blaine.....Nebr. .....708 10th Street.
Ph.B., 1904, Nebraska Wesleyan University.
Topics—Major, Economics; Minor, Sociology.

Ellis, John De Moss.....Ky. .....1733 20th Street.
A.B., 1907, University of Cincinnati.
Topics—Major, Economics; Minor, Political Science.

Hayes, Edward .....Md. .....907 W. Franklin Street, Baltimore, Md.
B.A., 1907, The George Washington University.
Topics—Major, English; Minors, English, Sociolgy.

Hendry, Moses Walton.....Md. .....Bethesda, Md.
A.B., 1903, Johns Hopkins University.
Topics—Major, Latin; Minors. Political Science, Law.

Kramer, Stephen Elliott.....D. C. .....1318 S Street.
B.S., 1906, The George Washington University.
Topics—Major, Education; Minors, Psychology, Education.

Lampson, Lawrence Vincent.....Ohio .....904 East Capitol Street.
A.B., 1906, Oberlin College.
Topics—Major, English; Minors, History, Education.

Name.	Legal residence.	City address.

Lowe, Henry Francis.....D. C. .....215 5th Street, N. E.
L.I., 1890, College of William and Mary.
B.S., 1903, The George Washington University.
Topics—Major, Education; Minors, Education, Sociology.

McCoy, Louise Winifred.....D. C. .....328 E Street, N. E.
A.B., 1907, The George Washington University.
Topics—Major, Education; Minors, Psychology, Latin.

MacMullen, Edgarda Marion.....Pa. .....The Darlington.
B.A., 1907, The George Washington University.
Topics—Major, Education; Minors, Psychology, English.

Muckenhoupt, Loretta Elizabeth..N. Y. .....1817 U Street.
B.A., 1905, Vassar College.
Topics—Major, Psychology; Minor, Education.

Paddock, Ernest Moorhead.....Pa. .....934 North Avenue, Allegheny, Pa.
B.A., 1894, University of Pennsylvania, Graduate, 1897, Episcopal Theological School, Cambridge, Mass.
Topic—Philosophy.

Peter, George Freeland.....D. C. .....Tudor Place.
S.T.B., 1904, General Theological Seminary.
Topics—Major, Philosophy; Minors, History, Sociology.

Ross, John Elliot.....D. C. .....614 19th Street.
A.B., 1902, Loyola College, Baltimore, Maryland.
Topics—Major, English; Minors, History, Economics.

Schoenfeld, Hans Fr. Arthur.....D. C. .....The Nelson.
B.A., 1907, The George Washington University.
Topics—Major, History; Minors, History, English.

Simmons, William Wyatt.....Miss. .....708 10th Street.
B.A., 1905, Mississippi College.
Topics—Major, Sociology; Minors, Economics, History.

Sullivan, Francis Paul.....D. C. .....1823 U Street.
A.B., 1904, Georgetown University.
Topics—Major, Architecture; Minors, Philosophy, Classical Archæology, Architecture.

White, Emilie Margaret.....D. C. .....2568 University Place.
A.B., 1907, The George Washington University.
Topics—Major, German; Minor, History.

Doctor of Jurisprudence.

Name. Legal residence. City address.

Castellot, José .....Mexico ...Mexican Legation.
A.B., 1899, Instituto Campechano.
LL.B., 1904, Escuela Nacional de Jurisprudencia, Mexico.
Topics—Major, Law; Minors, Political Science, Law.

Doctor of Philosophy.

Alden, Levi Russell.....D. C. .....809 L Street.
B.A., 1903, M.A., 1904, Columbian University.
Topics—Major, History; Minors, Law, History.

Backus, Cyrus Day.....N. Y. .....U. S. Patent Office.
Ph.B., 1896, LL.B., 1896, Cornell University; B.S., 1904, Columbian University; M.S., 1905, The George Washington University.
Topics—Major, Electrical Engineering; Minors, Physics, Chemistry.

Church, Calvin Grant.....Md. .....111 12th Street, S. E.
B.S., 1900, Maryland Agricultural College.
M.S., 1902, Columbian University.
Topics—Major, Chemistry; Minor, Chemistry.

Clark, Marion .....Md. .....Cecilton, Md.
B.A., 1901; M.A., 1903, Western Maryland College.
Topics—Major, History; Minors, Law, Political Science.

Coffey, George Nelson.....N. C. .....1225 11th Street.
Ph.B., 1900, University of North Carolina.
M.S., 1908, The George Washington University.
Topics—Major, Geology; Minors, Mineralogy, Meteorology.

Cook, Frank Cummings.....Conn. .....937 23d Street.
B.A., 1900, M.A., 1902, M.S., 1904, Yale University.
Topics—Major, Chemistry; Minors, Pharmacology, Physiology.

Doan, Mary .....Ind. .....10th St. and Grant Pl.
B.S., 1891, M.S., 1893, Purdue University.
B.L., 1892, Earlham College.
Topics—Major, English; Minors, Sociology, Philosophy.

Doyle, Aida Mary.....Penn. .....1123 Dartmouth Street.
B.S., 1898, M.S., 1899, Columbian University.
Topics—Major, Chemistry; Minors, Chemistry, Geology.

Dunlap, Frederick .....Ohio .....1200 E. Capitol Street.
E.E., 1904, Cornell University.
Topics—Major, Physics; Minors, Mathematics, Physics.

Name.	Legal residence.	City address.

Edler, August Friedrich Wilhelm.....Germany ...3513 Center Street.
B.A., 1906, M.A., 1907, The George Washington University.
Topics—Major, Germanics; Minor, Political Science, History.

Gardner, James Henry.....Ky. .....U. S. Geological Survey.
B.S., 1900, M.S., 1906, Kentucky State College.
Topics—Major, Geology; Minors, Geology, Zoölogy.

Gilbert, Walter Merwin.....N. Y. .....Bond Building.
B.S., 1899, College of the City of New York.
Topics—Major, Philosophy; Minors, Philosphy, English.

Hall, Percival .....D. C. .....Kendall Green.
B.A., 1892, Harvard University.
M.A., 1893, Gallaudet College.
M.D., 1890, Columbian University.
Topics—Major, Mathematics; Minors, Applied Mathematics, Astronomy.

Houghton, Harry Wilson.....Md. .....Bureau of Chemistry.
B.S. in Chemistry, 1906, M.S., 1907, The George Washington University.
Topics—Major, Chemistry; Minors, Anatomy, Histology.

Hillyer, William Eldridge.....D. C. .....1365 Park Road.
B.S., 1899, M.S., 1900, Columbian University.
Topics—Major, Chemistry; Minors, Chemistry, Electrical Engineering.

Hinman, Ida .....Iowa .....1529 Q Street.
B.S., 1892, A.M., 1902, Columbian University.
Topics—Major, English; Minors, German, French.

Huidekoper, Frederic Louis.....D. C. .....1614 18th Street.
A.B., 1896, Harvard.
Topics—Major, History; Minor, History.

Kimball, Herbert Harvey.....N. H. .....Library, U. S. Weather Bureau.
B.S., 1884, N. H. C. A. and M. A.
M.S., 1900, Columbian University.
Topics—Major, Astro-Physics; Minor, Meteorology.

Ludlow, Clara Southmayd.....Tenn. .....The Plaza.
B.S., 1900, M.S., 1901, A. and M. College, Miss.
Topics—Major, Preventive Medicine; Minors, Histology, Physiology, Anatomy, Bacteriology, and Pathology.

Lyon, Marcus Ward, Jr.....N. J. .....National Museum.
Ph.B., 1897, Brown University.
M.S., 1900, M.D., 1902, Columbian University.
Topics—Major, Zoölogy; Minors, Neurology, Histology.

Name. Legal residence. City address.

McBryde, Charles Neil.....Va. .....1736 G Street.
B.S., 1891, University of South Carolina.
M.S., 1893, The Virginia Polytechnic Institute.
M.D., 1897, The Johns Hopkins University.
Topics—Major, Bacteriology; Minors, Botany, Geology.

MacDonald, Donald Francis.....Wash. .....Geological Survey.
B.S., 1905, University of Washington State.
M.S., 1906, The George Washington University.
Topics—Major, Geology; Minors, Paleontology, Chemistry.

Marsh, Millard Caleb.....N. Y. .....Bureau of Fisheries.
B.S., 1897, Cornell University.
M.S., 1905, The George Washington University.
Topics—Major, Chemistry; Minors, Bacteriology, Chemistry.

Marshall, Elmer Eugene.....D. C. .....1327 Newton Street.
B.A., 1889, Ohio Wesleyan University.
S.T.B., 1904, Boston University.
Topics—Major, History; Minors, Philosophy, Semitic Languages and Literature.

Mattern, Louis Wilson.....Penn. .....McKinley School.
B.S., 1894, Pa. State College.
Topics—Major, Chemistry; Minor, Chemistry.

Mills, Joseph Strayer.....Md. .....Central High School.
B.A., 1890; M.A., 1893, Western Maryland College.
Topics—Major, Chemistry; Minors, Mineralogy, Physics.

Newberne, Robert Edward Lee...Texas .....914 New York Avenue.
M.D., 1893, Georgetown University.
D.D.S., 1898, Tacoma College Dental Surgery.
B.S., 1901, M.S., 1901, Columbian University.
Topics—Major, Neurology; Minors, Anatomy, Physiology.

Newton, Elmer Slayton.....Mass. .....Rm. 64, The Brunswick.
B.A., 1895, Amherst.
M.D., 1905, The George Washington University.
Topics—Major, Chemistry; Minors, Bacteriology, Chemistry.

Orth, Henry, Jr.....D. C. .....1011 L Street.
M.E., 1893, Lehigh.
M.S., 1899, Columbian University.
Topics—Major, Chemistry; Minor, Chemistry.

Patrick, George Edward.....Iowa .....Dept. of Agriculture.
B.S., 1893, M.S., 1894, Cornell University.
Topics—Major, Chemistry; Minors, Bacteriology, Chemistry.

Name.	Legal residence.	City address.

Peake, James Frederick.....Va. .....927 F Street, N. W.
B.A., 1902, Randolph-Macon College.
M.A., 1904, Columbian University.
Topics—Major, History; Minors, Latin, English.

Phalen, William Clifton.....Mass. .....806 A Street, S. E.
S.B., 1899, S.M., 1902, Massachusetts Institute of Technology.
Topics—Major, Geology; Minors, Petrography, Paleontolgy.

Portner, Edward George.....D. C. .....Alexandria, Va.
B.S., 1897, M.S., 1898, Columbian University.
Topics—Major, Chemistry; Minor, Chemistry.

Reynolds, John Merriam.....Pa. .....Cosmos Club.
M.A., 1905, Columbian University.
Topics—Major, Philosphy; Minors, Germanics, Political Science.

Richards, Luther Adolph.....Va. .....1100 N. Y. Avenue.
B.A., 1902, M.A., 1903, M.S., 1904, Columbian University.
Topics—Major, Astronomy; Minors, Astronomy, Astro-Physics.

Smith, John William .....D. C. .....515 E Street, N. E.
A.B., 1901, Randolph-Macon College.
Topics—Major, Philosophy; Minors, History, Semitics.

Solyom, Herbert Louis.....Md. .....U. S. Patent Office.
B. S., 1902, M.S., 1903, Columbian University.
Topics—Major, Astro-Physics; Minors, Economics, Meteorology.

Stiles, George Whitfield, Jr.....Okla. .....25½ Bates Street.
B.S., 1900, Oklahoma Agricultural and Mechanical College.
M.D., 1905, George Washington University.
Topics—Major, Bacteriology; Minors, Biochemistry, Medicine.

Townsend, Chas. Henry Tyler...D. C. .....National Museum.
B.S., 1908, The George Washington University.
Topics—Major, Zoology; Minors, Geology, Botany.

Waring, Luther Hess.....Pa. .....3144 Q Street.
B.A., 1905, M. A., 1904, The George Washington University.
Topics—Major, Germanics; Minors, Philosophy, Political Science.

Welsh, John Cleveland.....Tenn. .....229 F Street, N. E.
B.S., 1887, Carson and Newman College.
M.S., 1902, Columbian University.
Topics—Major, Botany; Minors, Chemistry, Zoölogy.

Name. Legal residence. City address.

Wilkinson, Benjamin George.....D. C. .....Takoma Park, D. C.
B.A., 1897, University of Michigan.
M.A., 1905, Union College.
Topics—Major, History; Minor, History.

Wilkinson, Oscar .....Miss. .....1404 L Street.
M.D., 1896, Tulane University.
Ph.B., 1902, University of Mississippi.
M.A., 1903, Columbian University.
Topics—Major, Physiological Optics; Minors, Therapeutics, Medicine.

Witherspoon, Thomas Alfred....Tenn. .....26 Iowa Circle.
1883, Graduated from U. S. Naval Academy.
LL.B., 1891, M.S., 1897, Columbian University.
Topics—Major, Chemistry; Minors, Chemistry, Electricity.

Woodward, Sherman Melville...Ariz. .....Dept. of Agriculture.
M.S., 1893, Washington University, St. Louis.
M.A., 1896, Harvard University.
Topics—Major, Applied Mathematics; Minors, Mechanical Engineering, Hydraulic Engineering.

Zerhusen, Frank Xavier.....Ky. .....Holy Cross College, Brookland, D. C.
A.B., 1906, Notre Dame University.
Topics—Major, German; Minors, German, Semitics.

Zimmer, Johanna .....Md. .....Frederick, Md.
B.L., 1902, M.L., 1903, Syracuse University.
Topics—Major, Philosophy; Minors, German, French.

UNDERGRADUATE COLLEGES AND DIVISIONS.

The following list includes all undergraduate students. The registration is indicated by the abbreviations: C.C. for Columbian College; Eng. for Washington College of Engineering; Arch. for Division of Architecture; C.P.S. for College of the Political Sciences; Ed. for Division of Education. The letters c., e., and m., after the abbreviation Eng., indicate that the student is a candidate for the bachelor's degree in Civil, Electrical or Mechanical Engineering; the absence of these letters indicates a special student.

Name. Legal residence. City address.

Abbé, Edward Hooper, Ed.....Mass. ..Hotel Gordon.
M.D., 1889, Long Island College Hospital.

Acker, Kemp Gerard, Eng.m.....D. C. ...913 16th Street.

Adams, Bernadotte Bouic, Arch....D. C. ...The Alabama.

Adams, Raymond Admond, Eng. c..Pa. .....2118 G Street.
A.B., 1891, C. H. S., Philadelphia, Pa.

Name.	Legal residence.	City address.
Adams, Vera Elsie, C.C.	D. C.	1915 14th Street.
Alden, Levietta Ruth, C.C.	D. C.	809 L Street.
Alexander, Florence B., C.C.	D. C.	1845 N. Capitol Street.
Allen, Nila Frances, C.C.	Ind.	1303 N Street.
Allen, (Mrs.) Walter Cummings, Ed.	D. C.	3307 Newark Street.
Allis, Frank Coy, C.P.S.	N. Y.	1751 Willard Street.
LL.B., 1903, Cornell University.		
Alston, Larkin Roy, Eng.	La.	1010 N Street.
Alvord, Katharine, C.C.	D. C.	The Westmoreland.
Anderson, Henry Melville, C.C.	Ala.	3042 R Street.
Austin, Miriam Jane, Ed.	D. C.	728 F Street, N. E.
Babcock, Horace Hobart, Eng.	R. I.	411 4th Street.
Bache, Louise, C.C.	D. C.	2422 Penna. Ave.
Baer, David Alphonse, C. C.	D. C.	3044 N Street.
Baker, Effie Kline, C.C.	D. C.	1728 Columbia Road.
Baker, Jessie Esther, Ed.	D. C.	1764 U Street.
Baker, John Earl, C.P.S.	Wisc.	911 M Street.
Ph.B., 1906, University of Wisconsin.		
Baldwin, Edward Damon, C.P.S.	Ore.	1736 G Street.
B.L., 1906, Whitman College.		
Ball, Eugene Maurice, Eng.m.	D. C.	3020 Dent Place.
Ball, William Curtis Cooley, C.C.	Md.	602 Park Road.
Ball, Wilma Irene, C.C.	Ohio	1214 14th Street.
Balloch, Agnes McGrew, C.C.	D. C.	1013 15th Street.
Barbour, Florence White, C.C.	Mass.	1808 Belmont Road.
Barbour, Grace Evelyn, C.C.	Mo.	1327 12th Street, N. E.
Baurman, Marian Alwine, Ed.	D. C.	317 N Street, S. W.
Bayly, Howard Paul, Eng. c.	D. C.	1333 11th Street.
Beadle, John Bookwalter, Eng. c.	D. C.	312 A Street, S. E.
Beale, Hilda, C.C.	D. C.	1820 Kalorama Road.
Bean, George Tinny, Eng.e.	D. C.	312 Randolph Pl., N. E.
Beckham, Blanche, Ed.	D. C.	2721 N Street.
Bell, Thomas Orville, C.C.	Iowa	Box 498, House of Rep.
Berry, James William, C.C.	D. C.	14 3d Street, S. E.
Berry, Louise, Ed.	Md.	1139 Harvard Street.
Besselievre, Nellie Ecker, C.C.	Pa.	315 E Street, N. E.
Bingham, Sidney Vincent, Eng.c.	D. C.	1326 Wallach Place.
Birtwell, Bertha, C.C.	Pa.	21 8th Street, N. E.
Blackley, Robert Bassett, Arch.	Texas	1412 Massachusetts Ave.
Blasey, Joseph, Arch.	D. C.	214 Arthur Place.
Bliss, Henry Harmon, Jr., C.C.	D. C.	1923 15th Street.
Bliss, Norman Eugene, C.C.	D. C.	1923 15th Street.
B.A., 1906, Bucknell University.		

Name.	Legal residence.	City address.
Block, Lydia Hortense, C.C.	D. C.	155 11th Street, N. E.
Boal, Theodore Davis, C.P.S.	Pa.	1712 H Street.
A.B., 1900, State University, Iowa.		
Bolton, Meade, Arch.	D. C.	2462 Wisconsin Ave.
Bostrom, Hildur Christina, Ed.	D. C.	531 7th Street, N. E.
Bowen, Leonard, C.P.S.	Va.	Rm. 21, Southern Railway Building.
Bowen, Norris, C.P.S.	Va.	304 Post Office Bldg.
Bowen, Seth Thomas, C.P.S.	Ohio	Adjutant-Gen. Office.
Bowker, Charles Harvey, C.C.	N. H.	1310 Vermont Ave.
M.D., 1892, Hahneman Medical College.		
M.D., 1900, National University.		
Bowman, Reginald Grisard, C.C.	Ind.	Treasury Dept.
Boyd, William Alexander, C.C.	N. C.	The Plymouth.
M.D., 1907, The George Washington University.		
Boyle, Francis, Eng.e.	N. Y.	150 A Street, N. E.
Brackett, Corinne Elizabeth, C.C.	D. C.	1464 Girard Street.
Bradshaw, May Paul, Ed.	D. C.	901 C Street, N. E.
Brame, Arthur Hervey, Eng.e.	D. C.	1317 10th Street.
Brashears, Irma, C.C.	D. C.	1211 Girard Street.
Breen, Mary Cecilia, C.C.	D. C.	1357 U Street.
Brewer, Margaret Halsey, C.P.S.	Md.	The Oakland.
Briggs, Victoria, C.C.	N. Y.	33, The Brunswick.
Britton, Carrie Evelyn, C.C.	Pa.	311 C Street.
Brodie, Ralph, Arch.	D. C.	609 Florida Ave.
Brooks, Courtland, C.C.	N. J.	Govt. Hosp. for Insane.
Browning, Anna Melrose, C.C.	D. C.	3212 Newark Street, Cleveland Park.
Bryan, Albert William, C.P.S.	Md.	Y. M. C. A.
Buckingham, Nevell, Arch.	D. C.	134 C Street, N. E.
Bullough, George Van Ness, C.C.	D. C.	122 Tenn. Ave., N. E.
Bumpus, Edna Viola, C.C.	D. C.	1017 B Street, S. E.
Burchard, Edwin Day, Eng.c.	D. C.	1530 10th Street.
Burke, Edmund, C.P.S.	Ill.	1448 Rhode Island Ave.
Burnham, Brooke Browning, Arch.	D. C.	103 C Street, S. E.
Burrell, William Webster, Eng.m.	Pa.	806 22d Street.
Burns, Mary Angela, Ed.	D. C.	1619 17th Street.
Busch, Simon Henry, C.P.S.	Minn.	735 13th Street.
LL.B., 1906, The George Washington University.		
Bushlowitz, Louis George, C.C.	N. Y.	1343 T Street.
Butler, Charles Robertson, C.P.S.	Ind.	418 T Street.
Butts, Lorenzo Gould, Eng.	Va.	Nat'l Elec. Signal Co.
Call, Loren Heinlein, Eng.e.	D. C.	1448 Newton Street.

Name.	Legal residence.	City address.
Callaghan, Margaret Gertrude, Ed.	Md.	3901 Grant Road.
Cameron, Myrle, C.C.	D. C.	16th and Emerson Sts.
Campbell, Harry Hamilton, Eng.c.	D. C.	1005 Otis Place.
Cantwell, John James, Eng.c	D. C.	633 G Street, S. W.
Carlson, Oscar Henry Wm., C.P.S.	Pa.	62 Rhode Island Ave.
Carraher, Margaret Mary, Ed.	D. C.	504 6th Street, S. W.
Carraher, Rose Gertrude, Ed.	D. C.	504 6th Street, S. W.
Carter, Francis Edward, C.C.	Va.	Episcopal High School, Alexandria, Va.
Carty, Roy Franklin, Eng.m	D. C.	1234 Harvard Street.
Cash, Lilian Claire, C.C.	D. C.	126 Tenn. Ave., N. E.
Cash, William Bogart, Arch.	N. C.	2516 17th Street.
Castell, Louis Bernard, C.C.	D. C.	1210 Columbia Road.
Chaffiot, Emanuel A., C.C.	D. C.	1114 19th Street.
Chapman, Marguerite Farren, Ed.	D. C.	1519 35th Street.
Cheshire, Lilie Alice, C.C.	D. C.	125 11th Street, S. E.
Childs, George Singleton, Arch.	Md.	Southern Ry. Bldg.
Church, Christine Merrick, C.C.	D. C.	626 N. C. Ave., S. E.
Churchill, George Morton, C.P.S.	Mass.	118 5th Street, S. E.
A.B., 1896, Boston University.		
Clancy, Mary Agnes, Ed.	D. C.	1227 15th Street.
B.S., 1897, The George Washington University.		
Clark, Frank Rinkea, Eng.	Utah	1950 Calvert Street.
Clark, Henry Culbertson, C.C.	D. C.	Takoma Park.
Cleaver, Jay Harvey, C.P.S.	Iowa	1305 Kenyon Street.
Clift, Linda Lee, C.C.	D. C.	163 U Street.
Coburn, William Turley, Eng.	D. C.	2959 Tilden Street.
Cochran, Ruth Gilbert, C.C.	Colo.	2464 Wisconsin Ave.
Cochrane, John Edw. Walker, Eng.	D. C.	1007 13th Street.
Collins, George Cornelius, Arch.	D. C.	44 C Street, N. E.
Compton, Edith Lee, Ed.	D. C.	1121 Euclid Street.
Conboye, William T., Eng.c.	D. C.	311 N Street.
Connell, Florence Frances, C.C.	Wisc.	1212 D Street, N. E.
Connelly, Mary Ann, Ed.	D. C.	1438 S Street.
S.B., 1891, The George Washington University.		
Conner, Lulu Elizabeth, C.C.	D. C.	3509 11th Street.
Connor, Louis George, Eng.c.	D. C.	626 L Street, N. E.
Conwell, Rollin Nichol, Eng.e.	Ind.	1302 Columbia Road.
Cook-Doherty, Lillian, Ed.	D. C.	2107 1st Street.
Cooke, May Thacher, C.C.	Colo.	1328 12th Street.
Copeland, Leland Stanford, C.P.S.	Mo.	1331 L Street.
Cornell, George Herbert, C.C.	N. Y.	1728 Euclid Street.
Corson, Edna Lois, C.C.	D. C.	1154 17th Street.

Name.	Legal residence.	City address.
Covell, David Ransom, C.C.	D. C.	3221 11th Street.
Craig, Allen, Eng.	D. C.	1822 I Street.
Craig, Harold Kennedy, Eng.c.	D. C.	1749 P Street.
Craig, Marion Edith, C.C.	Va.	The Newton.
Crawford, (Mrs.) Mary Page, C.C.	Va.	2026 North Capitol St.
Cross, Alice Josephine, C.C.	D. C.	1008 Massachusetts Ave.
Croswell, Nannie B., Ed.	D. C.	1327 Mass. Ave., S. E.
Crowe, John Joseph, C.C.	D. C.	Bladensburg Road, D. C.
Croxton, Roland Albert, Eng.c.	D. C.	1332 T Street.
Cunningham, Elsie Janet, Ed.	D. C.	647 East Capitol Street.
Curl, Joseph Ryland, C.C.	D. C.	416 5th Street.
Curran, William Joseph, Eng.c.	Va.	305 1st Street, S. E.
Curry, Charles William, C.P.S.	D. C.	1414 8th Street.
Dahn, Franz Fried. Wilhelm, C.C.	Minn.	1515 O Street.
Daniels, Ara Marcus, Eng.e.	D. C.	The Portner.
Davis, Adelaide, Ed.	Mass.	213 C Street, S. E.
Davis, Alfred Eliee, Eng.c.	Calif.	706 20th Street.
Davis, Allan, Ed.	Ohio	900 11th Street, S. E.
M.S., 1896, The George Washington University.		
Davis, Herbert Austin, Eng.c.	D. C.	1107 O Street.
Davis, Ralph Eaton, Eng.	Ill.	616 18th Street.
Davis, Robert Harkness, Eng.c.	D. C.	938 O Street.
Davis, Rena Preston, C.C.	D. C.	2212 1st Street.
Davis, Raymond Tilton, Eng.c.	Md.	1326 Corcoran Street.
Dean, Mary Owen, Ed.	D. C.	McKinley Training Sch.
B.A., 1895, Woman's College.		
DeLancy, Roi, C.C.	Ohio	1226 11th Street.
Dellinger, John Howard, C.C.	Ohio	1845 Calvert Street.
Denham, Ruth Millicent, C.C.	D. C.	Manor House.
DeRiemer, Arthur Hyde, Eng.	Ill.	1461 Chapin Street.
Dew, Ray Ellsworth, C.C.	Mo.	1723 Corcoran Street.
DeWolf, Richard Crosley, C.C.	Mass.	611 Md. Ave., N. E.
Deyo, Clarence Eugene, Eng.e.	Conn.	1301 K Street.
Dick, George Wesley, Eng.	D. C.	322 8th Street, N. E.
Divine, John Parker, C.C.	Md.	Bureau of Chemistry.
Dixon, Esther Claire, C.C.	Ind.	The Cairo.
Dolbey, Frank Crofutt, Eng.	D. C.	740 13th Street, S. E.
Donk, Marion Gilbert, Eng.c.	Fla.	Y. M. C. A.
A.B., 1898, Florida Agricultural and Mechanical College.		
A.B., 1901, Harvard University.		
Doran, Thomas Jeffrey, Eng.c.	D. C.	2129 L Street.
Dougal, William, Arch.	D. C.	3259 R Street.

Name.	Legal residence.	City address.
Dougherty, Howard Francis, Eng.c.	Md.	1012 12th Street.
Doyle, Burton Jarvis, Arch.	D. C.	632 C Street, N. E.
Draper, Henry White, Ed.	D. C.	1321 Columbia Road.
Dreisonstok, Joseph Young, Eng.c.	D. C.	808 18th Street.
Dulin, Wm. Shelton Gordon, Eng.c.	D. C.	722 12th Street.
Dunfee, Augustus Charles, Arch.	N. J.	1736 G Street.
Duvall, Mary M., Ed.	D. C.	1831 M Street.
Dunwoody, Ellen, C.C.	D. C.	1522 31st Street.
Dunwoody, Esther, C.C.	D. C.	1522 31st Street.
Dwyer, John Rochford, Eng.c.	D. C.	628 F Street, S. W.
Dysland, Henry Theodore, Arch.	Wisc.	Treasury Dept.
Dyson, Arnold Horton, Eng.c.	R. I.	3008½ R Street.
Earl, Charles Merritt, C.C.	Wisc.	Office of Indian Affairs.
Easterday, George Winship, Eng.e.	D. C.	1681 31st Street.
Eaton, Ernest Risley, C.C.	Australia.	Y. M. C. A.
Edler, August Fried. Wilh., C.P.S.	Germany.	3513 Center Street.
B.A., 1906, M.A., 1907, The George Washington University.		
Elwood, William Adams, Eng.c.	D. C.	635 F Street, N. E.
Ely, Seldon Marvin, C.P.S.	D. C.	50 S Street.
LL.B., 1894, LL.M., 1895, The George Washington University.		
Engel, Morris Edward, Eng.m.	Pa.	1016 S. C. Ave., S. E.
England, Howard G., C.C.	D. C.	5702 Brightwood Ave.
Engle, Walter Morse, Eng.e.	N. D.	1713 G Street.
English, Annie M., C.C.	Md.	Luzon Apt. House.
Estler, Harry Smith, Eng.	Va.	Rosslyn, Va.
Ettenger, Anne Lee, C.C.	Ind.	1507 Lamont Street.
Evans, Helen Marie, C.C.	D. C.	1348 Euclid Street.
Everett, Frank Orear, C.C.	Mo.	1345 L Street.
Falconer, Sydnor Matthew, Eng.	D. C.	1911 6th Street.
Farley, Edward Vincent, C.C.	Pa.	1402 Emerson Street.
Farrington, Charlotte Raynsf'd, C.C.	Minn.	3014 Dent Place.
Farwell, Clarence Gilbert, C.P.S.	Mass.	1307 13th Street.
Fehr, J. Ralph, Eng.e.	Ill.	Patent Office.
Field, Eva Cornelia, C.C.	Wisc.	131 11th Street, S. E.
Field, Ruth Genevieve, C.C.	Wisc.	131 11th Street, S. E.
Finch, Elmer Harrison, Eng.c.	Mich.	307, Post Office.
Finckel, William Henry, Jr., Eng.m.	D. C.	1625 S Street.
Fitton, Charles Winston, Arch.	D. C.	1315 Half Street, S. W.
Fleming, Robert Fleming, Eng.e.	D. C.	1847 Wyoming Ave.
Forbes, Mary Frances, Ed.	D. C.	McKinley Manual Training School.
B.A., 1904, Carleton College.		

Name.	Legal residence.	City address.
Foster, Carrington, Arch.	Va.	1017 K Street.
Foster, Esther, C.C.	D. C.	119 W Street.
Foster, Josephine, C.C.	Ind.	1505 L Street.
Fravel, Robert Hiram, C.C.	Va.	1015 H Street.
M.A., 1906, Randolph-Macon College.		
Fry, Benjamin Franklin, Arch.	Ind.	220 4th Street, S. E.
B.A., 1906, Wabash College.		
Fuchs, Henry, Eng.e.	Mo.	912 23d Street.
Fuerst, George Matthew, Arch.	Wisc.	809 22d Street.
Fuller, Aubrey Vail, C.C.	D. C.	2318 1st Street.
Gaegler, Ann Jeanette, C.C.	D. C.	1215 8th Street.
Galloway, Gerald Fogarty, Arch.	Eng.	The Olympia.
Galt, Frank Thomas, C.P.S.	Md.	Hyattsville, Md.
Gannett, Eleanor, C.C.	D. C.	2556 University Pl.
Gantley, Helen Gertrude, C.C.	D. C.	1412 6th Street.
Gardner, Marian, C.C.	D. C.	1623 Park Road.
Garnett, Henry Wise, C.P.S.	D. C.	1331 Kenyon Street.
Garland, Alejandro, Jr., Arch.	Peru	1101 14th Street.
Garlock, Charles Washington, C.C.	Ill.	Navy Dept.
Garner, Lucian, Jr., Eng.	D. C.	1302 S Street.
Garner, Thomas Johnston, Eng.c.	D. C.	1302 S Street.
Gary, Howland, Eng.m.	Va.	The Sherman.
Gates, Edward Percy, C.C.	Ark.	3506 Center Street.
Geare, Reginald Wickliffe, Arch.	D. C.	1318 Columbia Road.
Gebicke, William Anton, Arch.	D. C.	513 H Street, N. E.
Gibbs, Kate Maria, Ed.	Mass.	1216 S Street.
Gibson, Harry C., Eng.m.	Pa.	Bu. of Standards.
Gillingham, Elizabeth L., Ed.	N. J.	1538 I Street.
Goding, Anne M., Ed.	D. C.	1419 R Street.
Gordon, Hayner Haskell, Eng.e.	Ohio	1310 Girard Street.
Gordon, Helen, C.C.	Ill.	1439 R. I. Ave.
Gould, Ozro Cause, C.P.S.	Minn.	2018 G Street.
Graham, George Vernon, C.C.	D. C.	125 11th Street, N. E.
Green, Elsie Eugenia, C.P.S.	D. C.	600 20th Street.
Greenberg, Louis, Arch.	D. C.	612 N Street.
Griswold, Grace Eunice, C.C.	D. C.	1359 Mass. Ave., S. E.
Grosvenor, Edith Louise, Ed.	Md.	Eastern High School.
Guardia, Jorge, C.P.S.	C. R.	Costa Rican Legation.
Gunning, James McIntosh, Eng.c.	N. J.	18 3d Street, S. E.
Hackett, William T., Eng.	D. C.	1129 Fairmont Street.
Hallam, Eudora Veturia, Eng.	D. C.	326 5th Street, S. E.
Halsey, Arthur Sherman, Eng.	Pa.	301 Md. Ave., N. E.
Halsted, Lenore, C.C.	D. C.	1936 Biltmore Street.

Name.	Legal residence.	City address.
Handy, Sara Virginia Chaillé, Ed.	Md.	3107 Wisconsin Ave.
Hardester, John Sylvester, Eng.	D. C.	529 12th Street, S. E.
Harrington, George Leavitt, Eng.c.	Minn.	632 East Capitol Street.
Hart, Charles, Ed.	D. C.	515 B Street, N. E.
Hart, Raymond Sagar, Arch.	D. C.	1536 6th Street.
Hartmann, Wilhelmine Cornelia, Ed.	D. C.	The Berkshire.
Haslup, Alice Elma, Ed.	D. C.	2114 18th Street.
Hathaway, Lillie Theresa, C.C.	Ohio	Treasury Dept.
Hauser, Edna, C.C.	D. C.	1729 1st Street.
Hawley, John Winthrop, C.P.S.	D. C.	1514 R Street.
Haycock, Robert Lee, Ed.	D. C.	Industrial Home Sch.
Hayden, Elizabeth Anne, Ed.	D. C.	1408 Belmont Street.
Heine, Emma Henrietta, Ed.	D. C.	6427 Brightwood Ave.
Heiss, Charles Augustus, C.P.S.	Pa.	Interstate Commerce Commission.
Hemphill, May, C.C.	Texas	The Brunswick, No. 86.
Herndon, John Goodwin, Jr., C.C.	D. C.	1305 P Street.
Hicks, Arthur Lee, C.P.S.	D. C.	621 B Street, N. E.
A.B., 1897, Kentucky State College.		
Higginbotham, Richard Frank, C.C.	Ind.	105 5th Street, N. E.
Hilleary, Clara Louise, Ed.	D. C.	3314 P Street.
Hilleary, Mary Beatrice, Ed.	D. C.	3314 P Street.
Hiortdahl, Harold, C.P.S.	Ill.	2918 Cherman Ave.
Hoagland, George Lincoln, Eng.m.	Mass.	War Department.
Hobbs, Anna Margarett, Ed.	D. C.	642 7th Street, N. E.
Hobbs, Ernest Samuel, C.P.S.	Ill.	943 Va. Ave., S. W.
B.A., 1903, Northwestern University.		
Hoffman, Edwin S., Eng.e.	Pa.	523 B Street, N. E.
Holden, John Greene, Eng.	Md.	Amer. Security and Trust Company.
Holmes, Osgood, Arch.	D. C.	1444 Belmont Street.
Holmes, Phoebe, Ed.	D. C.	2307 18th Street.
Holmes, Walter, Arch.	Pa.	2417 18th Street.
Holmes, (Mrs.) Wm. Henry, Ed.	D. C.	1444 Belmont Street.
Holzberg, Tonnis Julius, Arch.	D. C.	1124 25th Street.
Honn, Harlan Verne, Eng.e.	D. C.	1118 12th Street, N. E.
Hooton, Philip Rogers, Arch.	D. C.	1005 Mass. Ave., N. E.
Hopson, Howard Colwell, C.P.S.	Wisc.	1311 G Street.
Hornung, Elmer Engelken, Arch.	Iowa	922 14th Street.
Hough, Edgar Joseph, Eng.m.	D. C.	472 Md. Ave., S. W.
Hough, Roland P., Eng.c.	Va.	3301 Prospect Ave.
Howard, Frank Atherton, Eng.m.	D. C.	1430 V Street.
Howard, Lucy Thurber, Ed.	D. C.	2026 Hillyer Place.

Name.	Legal residence.	City address.
Howell, Ralph William, C.C.	Md.	612 17th Street.
Humphries, Harrison B., Eng.c.	Colo.	116 11th Street, N. E.
Hunter, Annie Rachel, C.C.	D. C.	1211 34th Street.
Hunter, Gertrude, Ed.	D. C.	1309 N Street.
Huntting, Horace Parsons, Eng.	N. Y.	Rm. 440, Y. M. C. A.
Hynson, Richard Washburn, C.P.S.	D. C.	1335 N Street.
Ingersoll, Edwin Henry, C.C.	D. C.	Bu. Animal Industry.
Ivins, Carroll Harvey, C.C.	N. J.	1218 Irving Street.
James, Charles Grant, C.P.S.	Ohio	1448 Rhode Island Ave.
James, Charles Grant, C.C.	Ohio	1448 Rhode Island Ave.
Jenkins, Oliver Lloyd, Eng.m.	Ind.	413 A Street, S. E.
Johnson, Harold Crumbaugh, Arch.	D. C.	3 Foxhall Road.
Johnston, Margaret Anne, C.C.	D. C.	1633 Irving Street.
Johnston, Mildred Floyd, Ed.	D. C.	1762 N Street.
Johnston, William Roland, Arch.	D. C.	600 6th Street.
Jones, Alma, Ed.	D. C.	129 Indiana Ave.
Jones, Claude Carville, C.C.	Md.	Mt. Rainier, Md.
Jones, Edward Everett, Eng.	D. C.	New National Museum.
Jones, Horace Godfrey, Eng.c.	D. C.	1410 M Street.
Jones, Philip Craig, Arch.	D. C.	701 East Capitol Street.
Keeler, Mary Frances, Ed.	D. C.	654 East Capitol Street.
Kelly, Mary Grattan, C.C.	D. C.	The Normandie.
Kendall, John Dwight, C.P.S.	D. C.	14th Street Road.
Kennedy, John Thomas, C.P.S.	Pa.	Y. M. C. A.
LL.B., 1907, The George Washington University.		
Kelsey, Gertrude Eloise, Ed.	N. Y.	2112 Wyoming Ave.
Kibler, Thomas Latimer, C.P.S.	Va.	Falls Church, Va.
A.B., 1904, Randolph-Macon College.		
Kimber, Emmor Harper, C.P.S.	N. Y.	1537 I Street.
King, George Allan, Eng.e.	Md.	Kensington, Md.
King, Metella, Ed.	D. C.	1003 K Street.
King, Winifred Mary, C.C.	D. C.	1803 14th Street.
Kinsell, Rex Emir, C.C.	Iowa	1335 Massachusetts Ave.
Kirkland, Thornton Crowns, Eng.	Mexico	706 11th Street.
Kitselman, Harry Louis, C.P.S.	Ind.	406, The Burlington.
Knode, Florence A., C.C.	Minn.	The Northampton.
Knowles, William Alexander, Arch.	Md.	National Museum.
Kramer, Frank Henry, Eng.	D. C.	815 3d Street, S. E.
Larzelere, Charles Le Verne, C.C.	Mich.	Rm. 403, Y. M. C. A.
Lasier, Emery Liebschutz, Eng.c.	N. H.	1427 Girard Street.
Lasley, Dana McGuffey, Eng.	D. C.	The Albemarle.
Lawrence, Glenn Rupert, Eng.c.	D. C.	3425 14th Street, Brookland, D. C.

Name.	Legal residence.	City address.
Layne, John Hampton, Eng.	D. C.	816 18th Street.
Leech, Wilmer Ross, C.P.S.	Md.	2302 1st Street.
LL.B., 1907, The George Washington University.		
Leonard, William Michael, Eng.	D. C.	525 F Street, N. E.
Leone, Charles, C.C.	N. Y.	727 13th Street.
Lewis, Leon Laurence, C.P.S.	Wisc.	Civil Service Com.
Lewis, Walter Scott, C.C.	Mass.	1747 U Street.
Lipscomb, Adgate Andrew, Arch.	D. C.	3350 17th Street.
Little, Agnes Inch, Ed.	D. C.	332 Md. Ave., N. E.
Littlefield, Edward Arthur, Arch.	Utah	Rm. 438, Y. M. C. A.
Littlejohn, Howard Irwin, C.C.	Nebr.	607 4th Street.
Locker, Jane Lillard, C.C.	D. C.	125 U Street.
Lockie, Joseph Alexander, Arch.	Me.	808 17th Street.
Lockwood, Vesta Janet, C.C.	D. C.	21 7th Street, S. E.
Lombard, Charles Russell, Arch.	Me.	608 E Street.
Love, Joseph Eugene, Eng.	Iowa	Bureau of Standards.
Luers, George Arthur, Eng.	Md.	The Cumberland.
McAuley, Hugh Nesbet, Arch.	D. C.	530 21st Street.
McAvoy, Catharine Agatha, C.C.	D. C.	1917 17th Street.
McCarthy, Charles Henry, C.C.	R. I.	19th and G Streets.
McColm, Anna May, Ed.	Iowa	135 A Street, N. E.
McConnell, Harry Raymond, Eng.m.	Va.	601 N. C. Ave., S. E.
McDaniel, Annie Murray, Ed.	D. C.	128 C Street, S. E.
Mackay, (Mrs.) Mary E., Ed.	D. C.	1822 15th Street.
MacLeod, Helen Mar, C.C.	D. C.	1347 Girard Street.
McPike, Martin John, Eng.c.	Pa.	812 1st Street.
Mahan, Jane, C.C.	W. Va.	The Savoy.
Mann, Edward Leonard, C.C.	D. C.	Bu. Animal Industry.
Manning, Thomas R., Eng.	Pa.	26 2d Street, N. E.
Manville, Loren Robert, Eng.c.	S. D.	The Sherman.
Marsh, Allen Johnson, C.C.	Ohio	McKinley High School.
Marsh, Charles Wilder, C.C.	D. C.	3430 Brown Street.
Marsh, Hadleigh, C.C.	D. C.	3430 Brown Street.
Marsteller, John A. Thompson, C.C.	Md.	Mt. Rainier, Md.
Marvin, Francis Edwin, Eng.e.	D. C.	606 F Street, N. E.
Marye, Tench Tilghman, C.C.	D. C.	1526 29th Street.
Mattingly, Gentry Heard, Eng.e.	D. C.	475 F Street, S. W.
Maurer, Margaret, Ed.	Ohio	54 Rhode Island Ave.
Maxcy, Kenneth Fuller, C.C.	D. C.	1118 Rhode Island Ave.
Merritt, Pearl Ketcham, C.C.	Minn.	154 F Street, S. E.
Metzger, Jacob Adam, C.C.	N. Y.	513 6th Street.
Meyer, Will Beck, C.C.	D. C.	609 P Street.
Middleton, George Elmer, C.C.	D. C.	3412 13th Street.

Name.	Legal residence.	City address.
Miller, Alvin Wilson, Ed.	Ill.	2914 N Street.
Miller, Charles Colden, C.P.S.	D. C.	1348 Fairmont Street.
A.B., 1904, LL.B., 1906, Georgetown University.		
Miller, Clarence William, C.C.	Ind.	821 11th Street.
Miller, Elton Willard, Eng.m.	Calif.	1755 Columbia Road.
Molitor, David Albert, Eng.c.	Wisc.	2205 K Street.
Moneyway, James Lewis, C.P.S.	Ala.	Apt. 46, The Marlborough.
Monroe, Edgar Hewitson, Eng.	D. C.	901 Va. Ave., S. W.
Moody, Theodore Lyman, Eng.c.	Md.	1512 P Street.
Moor, Daniel Francis Cook, C.C.	D. C.	723 19th Street.
Moore, Alice Bell, Ed.	Ohio	1419 Chapin Street.
Moore, Charles Somerville, C.C.	Mich.	Bureau of Chemistry.
Moore, Frances Du Bois, Arch.	N. Y.	1421 Chapin Street.
Moore, James Ballard, Eng.	D. C.	2332 Columbia Road.
Moore, James Furman, C.C.	S. C.	623 F Street, S. W.
Moore, Lee Varick, C.C.	N. C.	1460 Corcoran Street.
Moore, Maurice Malcolm, Eng.	Mich.	2332 Columbia Road.
Moore, Susanne A., Ed.	D. C.	1308 Girard Street.
Morgan, Mary Ella, Ed.	D. C.	2750 14th Street.
Moyer, Jennie, C.C.	D. C.	610 8th Street, N. E.
Mueden, Pauline, Ed.	D. C.	The Portner.
Mueller, Omar Eugene, C.P.S.	Ohio	1406 L Street.
A.B., 1903, Harvard University.		
Muhleman, Albert Kenton, Eng.c.	D. C.	1512 8th Street.
Myers, Henry Bernard, Eng.c.	D. C.	1412 Columbia Street.
Newhouser, Roy Lyman Joseph, C.C.	Pa.	217 East Capitol Street.
Newton, Margaret, C.C.	D. C.	1625 R Street.
Nicholson, Helen Sellman, C.C.	D. C.	2821 Q Street.
Nickel, William Frederick, Eng.e.	Md.	382 Patent Office.
Nickerson, Chester Arthur, C.C.	Wisc.	2006 F Street.
Nikirk, Henry Harvey, C.C.	D. C.	10 7th Street, N. E.
North, Hilda, Ed.	D. C.	2807 14th Street.
Norton, Claude Nelson, Arch.	Va.	1517 H Street.
Oberly, Portia Meredith, Ed.	D. C.	2107 19th Street.
O'Connell, Martin Joseph, Eng.e.	Pa.	2126 1st Street.
Offutt, Viola, Ed.	Md.	Bethesda, Md.
Ohm, William Oscar, C.C.	Md.	2225 Flagler Place.
Ord, Gladys Anne, C.C.	Md.	Chevy Chase, Md.
O'Rourke, John, Arch.	D. C.	Station G, 2472.
Owens, Norris Wilbur, Ed.	D. C.	315 R Street.
Padgett, Harold Dement, Eng.c.	Md.	1330 F Street.
Pardee, Elmer Witmer, Eng.e.	N. Y.	916 19th Street.

Name.	Legal residence.	City address.
Parker, Francis Joseph, C.C.	S. D.	939 K Street.
Parry, William, Eng.e.	Pa.	1328 New York Ave.
Parsons, Alice Frances, Ed.	D. C.	210 1st Street, S. E.
Patchell, Fred James, Arch.	D. C.	357 N Street, S. W.
Peck, George Curtis Stanley, C.P.S.	D. C.	The Plaza.
Phillips, Marguerite, C.C.	D. C.	1705 21st Street.
Pierce, Charles Roy, C.C.	Calif.	3233 N Street.
Pierce, James Francis, Eng.e.	Mich.	1243 F Street.
Pipes, Walter Logan, Eng.c.	D. C.	916 F Street.
Plass, Joseph, C.C.	Germany.	Library of Congress.
Platt, Bertha Imogene, C.C.	D. C.	721 East Capitol Street.
Poole, George, Eng.m.	D. C.	903 E Street, S. E.
Potter, Charles Hollister, Eng.c.	N. C.	316 East Capitol Street.
Powers, Edgar Cordell, C.C.	Md.	923 Longfellow Street.
Prentiss, Augustin Mitchell, Eng.c.	S. C.	1704 Q Street.
Prince, Ethel Thomas, Ed.	D. C.	161, The Portner.
Prince, Roy Webster, Eng.e.	D. C.	742 New Jersey Ave.
Proctor, Mary Fergus, C.C.	D. C.	1231 11th Street.
Pyles, Hester Ellen, C.C.	D. C.	103 Jackson Street.
Raber, Katherine May, C.P.S.	Ohio	1636 15th Street.
Ralph, Edward Joseph, C.C.	D. C.	1246 Newton St., N. E.
Ramsey, Harold Edwin, Eng.e.	D. C.	813 Mass. Ave., N. E.
Reavis, Andrew Bryant, C.C.	Tenn.	3555 11th Street.
Reed, Edward Oliver, C.C.	D. C.	1216 S Street.
Richardson, Amy, Ed.	D. C.	1317 Connecticut Ave.
Rives, John Joseph, C.C.	N. C.	316 9th Street, N. E.
Rockwell, Horace Lewis, Eng.	D. C.	McGill Bldg.
Rodgers, Frank Beverly, Eng.	D. C.	1002 O Street.
Rodgers, William Joyce, Eng.	D. C.	932 C Street, S. W.
Root, Emeretta, C.P.S.	Utah	1004 Park Road.
Rose, Anna Lorette, C.C.	D. C.	1725 Euclid Street.
Rouzer, Horace Dodge, Eng.c.	Md.	2003 G Street.
Russell, Lewis Henry, Arch.	N. Y.	3538 Warder Street.
Ryan, William David, Jr., C.P.S.	Ill.	105 Md. Ave., N. E.
Sanders, Charles Haddon, C.C.	I. T.	Y. M. C. A.
Sargent, Annie Maria, Arch.	Mass.	The Cordova.
Saum, Irving Randolph, Eng.c.	D. C.	1308 Girard Street.
Schaaf, August H., Eng.c.	Md.	Bu. of Standards.
Schmitt, Waldo Lasalle, C.C.	D. C.	211 Florida Ave.
Schreiber, Ernst Otto, Jr., C.C.	D. C.	642 E Street, N. E.
Schwartz, Claus Johnn, Ed.	D. C.	3526 11th Street.
Scott, Oliver Hazard Perry, Eng.e.	S. C.	510 Mills Bldg.
Seiler, Justin Frank, C.P.S.	Ohio	123 12th Street, N. E.

Name.	Legal residence.	City address.
Senior, Thomas Richard, Eng.c	D. C.	203 Elm Street.
Sexton, Paul Lester, C.C	Va.	1761 P Street.
Shackelford, Laura, C.C	D. C.	924 Md. Ave., N. E.
Shallenberger, Don, C.C	Ohio	1226 11th Street.
Sherwood, Sidney Forsythe, C.C	Va.	Bu. of Chemistry.
Shipe, Laura Frances, C.C	Va.	1924 6th Street.
Shipman, Mary Priscilla, Ed	D. C.	3064 Q Street.
Shrader, James Houston, C.C	D. C.	804 8th Street.
Simcoe, Herman Leroy, C.P.S	Ill.	1208 M Street.
Simons, Robert Stephenson, C.P.S LL.B., 1904, University of Virginia. LL.B., 1905, LL.M., 1906, University of Michigan.	S. C.	Southern Ry. Bldg.
Simpson, Gustavus Sailer, Eng.c	D. C.	1477 Columbia Road.
Simpson, Margaret Fraser, C.C	Va.	949 S Street.
Simpson, Walter Scott, Eng	D. C.	508 10th Street, S. E.
Singleton, Ogle Ridout, C.C	D. C.	2020 H Street.
Sipe, Susan Bender, C.C	D. C.	The Ontario.
Sisco, Henry Nathaniel, C.C	D. C.	1602 Vermont Ave.
Sleman, Emily Fuller, C.C	D. C.	3114 16th Street.
Small, Madison Ruff, C.C	D. C.	1466 Harvard Street.
Smirnoff, Elena Feodorovna, Ed	France	1801 Mass. Avenue.
Smith, Bedford Keith, Eng.m	Va.	805 Cameron Street, Alexandria, Va.
Smith, Chester Harvey, Eng.e	D. C.	327 2d Street, N. E.
Smith, Frank Newman, C.C	D. C.	509, The Ontario.
Smith, Harry Locke, Eng.c	N. H.	313 S Street, N. E.
Smith, Janie Alice, C.C	D. C.	637 Mass. Ave., N. E.
Smith, John Ambler, C.C	D. C.	The Portner.
Smoot, Charles Calvert, C.C	Va.	Bu. of Chemistry.
Sommers, Walter Allwood, C.P.S LL.B., 1905, St. Lawrence University. LL.B., 1906, LL.M., 1907, The George Washington University.	N. Y.	Post Office Dept.
Spencer, Harry Garfield, C.C	D. C.	Congress Heights, D. C.
Spier, Vera Caroline, Ed	Md.	21 Melrose Street, Chevy Chase, Md.
Stabler, Harold Brooke, Eng.e	Md.	The Regina.
Stafford, Charles Francis, Eng.m	N. Y.	18 3d Street, S. E.
Stedman, Wilbur M., C.C	Md.	Office of Engr. of Tests, Baltimore, Md.
Steever, Laura Winfield, C.C	Md.	Forest Service.
Stein, Hilda Beatrice, C.C	D. C.	The Madrid.
Sterrett, John Adlum, C.C	D. C.	Springland, Pierce Mill Road, D. C.

Name.	Legal residence.	City address.
Stonebraker, Harold English, C.C.	Pa.	645 Mass. Ave., N. E.
Stout, James Duerson, C.C.	D. C.	1104 8th Street.
Stowell, Ellery Cory, C.P.S.	Mass.	Cosmos Club.
A.B., 1898, Harvard University. LL.B., 1906, University of Paris. Diplomé, 1906, Paris School of Political Science.		
Stromberger, Alice P., Ed.	D. C.	1325 Mass. Ave., S. E.
Stutler, Ward, Arch.	W. Va.	1736 G Street.
Stuwe, John Daniel, Eng.c.	Minn.	1017 P Street.
Sullivan, Ben H., C.C.	Ga.	Care of Hon. T. M. Bell, M. C.
Summy, Helen, C.C.	D. C.	920 19th Street.
Summy, Katherine Strong, C.C.	D. C.	920 19th Street.
Swartwout, Jessamine Eliza, C.C.	D. C.	300 Carroll Street, Takoma Park, D. C.
Swayne, Clyde Chalmers, Eng.e.	Pa.	1529 3d Street.
Taylor, Bessie Eastlack, Ed.	D. C.	209 21st Street.
Taylor, Margaret Randolph, C.C.	D. C.	1330 U Street.
Tenney, Charles Wesley, C.P.S.	Mont.	1829 F Street.
Ph.B., 1898, Willammette University.		
Terr, Nai, C.P.S.	Siam	Siamese Legation.
Thigpen, Claude, Eng.c.	Ala.	Navy Department.
Thompson, Walter Harrison, Eng.e.	Pa.	1433 Rhode Island Ave.
Thomson, Frances Louise, Ed.	D. C.	1538 I Street.
Thomson, Harriet Huntington, C.C.	D. C.	3423 16th Street.
Tibbets, Albert Perkins, C.C.	N. H.	1018 14th Street.
Tolson, Lillian Irene, Ed.	Md.	125 12th Street, N. E.
Tonks, Eliza, C.P.S.	N. Y.	1331 Columbia Road.
A.B., 1903, Cornell University.		
Towne, Edward Bancroft, C.P.S.	Calif.	1215 K Street.
A.B., 1906, Harvard University.		
Townsend, Chas. Henry Tyler, C.C.	D. C.	National Museum.
Triepel, (Mrs.) E. M. Vaughan, C.C.	N. C.	2516 17th Street.
Truesdell, Stephen Riggs, Eng.c.	D. C.	1121 Harvard Street.
Tucker, Prescott Stearns, C.C.	D. C.	633 G Street, N. E.
Tulloss, Joseph Clark, Eng.m.	Va.	1110 F Street.
Turkenton, William James, Eng.c.	D. C.	1513 33d Street.
Turnbull, Barton Pitts, C.C.	Fla.	815 12th Street.
Turnburke, Vernon Palmer, Eng.e.	D. C.	403 P Street.
Underwood, Mary Louise, Ed.	D. C.	129 6th Street, N. E.
Van den Bossche, Henry P., Eng.c.	Mass.	236 16th Street, S. E.
Van Doren, Charlotte Augusta, Ed.	D. C.	647 E. Capitol Street.
Van Vleck, William Cabell, C.C.	D. C.	800 E Street, N. E.

Name.	Legal residence.	City address.
Veihmeyer, Frank, Eng.c	D. C.	438 10th Street, S. W.
Vogt, Sophia Adelia, Ed	D. C.	1208 Columbia Road.
Vorkoeper, John Frederick, C.C	Wisc.	1433 New Jersey Ave.
Waggaman, Clarke, Arch	D. C.	2600 Connecticut Ave.
Wagner, Simon Peter, Arch	Md.	1330 13th Street.
Walters, Henry Neal, Eng.c	Va.	2003 G Street.
Walton, George Pelham, C.C	D. C.	22d and Franklin Sts., Langdon, D. C.
Wansleben, Thomas O., Eng.m	Md.	728 11th Street.
Ward, Philip Henry, Eng.e	D. C.	1756 Penna. Ave.
Warren, David Howard, C.C	D. C.	3549 11th Street.
Waterman, Storrs Seymour, C.C	D. C.	207 R Street.
Waters, Joseph Henry, Eng.c	D. C.	3227 11th Street.
Watkins, Catharine Rose, C.C	D. C.	1246 10th Street.
Wenderoth, Ernest Ferd., Eng.e	N. Y.	Bu. of Standards.
Wetzel, Cora Mary, C.C	D. C.	1246 Columbia Road.
White, Sarah Eskridge, Ed	D. C.	213 C Street, S. E.
Whitehead, John Roy, C.P.S E.E., 1907, Purdue University.	D. C.	Signal Office.
Whitney, Flora Goodridge, Ed	D. C.	617 12th Street, N. E.
Wiegand, Harry Frank, Eng.e	D. C.	824 6th Street, S. W.
Wilbur, John Palmer, Eng.c	Conn.	1808 Belmont Road.
Wilkins, Lewanna, Ed B.S., 1891, Wellesley College.	D. C.	1414 Girard Street.
Willard, Clayton Edwin, C.C	Mass.	39½ Bates Street.
Williams, Pascoe W., C.C	Va.	Treasury Dept.
Williamson, James McGowan, C.C LL.B., 1907, The George Washington University.	D. C.	1210 S Street.
Willson, Charles Carter, Eng	D. C.	57 R Street, N. E.
Wilson, Charles Paret, C.P.S B.S., Chem., 1907. The George Washington University.	Md.	Bureau of Chemistry.
Wilson, David Edward, Ed	D. C.	1012 Park Road.
Wilson, Mary Badger, C.C	D. C.	1901 Q Street.
Wilson, Ruth, C.C	D. C.	214 P Street.
Winter, Maxwell W., Eng.c	Nebr.	1448 Clifton Street.
Witten, Aubrey Bowen, Arch	Mo.	2518 13th Street.
Woodruff, William Abner, C.P.S	N. Y.	2002 G Street.
Woods, Katharine, C.P.S	Md.	2128 Bancroft Place.
Woodward Esther Rittenhouse, Ed	D. C.	125 New York Ave.
Woodwell, Carolus Sylvester, C.C	Fla.	930 16th Street.
Wright, Frederick Eugene, Ed	D. C.	1829 Kalorama Road.
Yates, Robert Raleigh, Eng.c	D. C.	1608 6th Street.

Name.	Legal residence.	City address.
Yoder, Bessie Lee, Ed.	D. C.	144 11th Street, S. E.
Young, Irene Ottilie, Ed.	Iowa	2210 Penna. Ave.
Zielinski, Carl von, C.P.S.	N. Y.	Fort Myer, Va.

Summary.

GRADUATE STUDENTS:

Students in attendance	10	
Candidates for the E.E. degree	3	
Candidates for the C.E. degree	2	
Candidates for the M.S. degree	7	
Candidates for the M.A. degree	24	
Candidate for the Jur.D. degree	1	
Candidates for the Ph.D. degree	47	
		94

UNDERGRADUATE STUDENTS:

Candidates for the B.A. degree	124	
Candidates for the B.S. degrees	192	
Candidates for the M.Dip. degree	13	
Special students	217	
Auditors	3	
		549
Total		643

UNDERGRADUATE STUDENTS:

Columbian College:		
Candidates for the B.A. degree	77	
Candidates for the B.S. degree	44	
Candidates for the B.S. in Chem. degree	12	
Special	72	
		205
Washington College of Engineering:		
Candidates for the B.S. in C.E. degree	59	
Candidates for the B.S. in E.E. degree	35	
Candidates for the B.S. in M.E. degree	19	
Special	37	
		150
Division of Architecture:		
Candidates for the B.S. in Arch. degree	12	
Special	36	
		48
College of the Political Sciences:		
Candidates for the B.A. degree	23	
Candidates for the M.Dip. degree	13	
Special	25	
		61
Division of Education:		
Candidates for the B.A. degree	23	
Candidates for the B.S. degree	12	
Special	50	
		85
Total		549

PROFESSIONAL DEPARTMENTS.

DEPARTMENT OF MEDICINE.

Doctor of Medicine.

First Year.

Name.	Legal residence.	City address.
Bacon, Walter Compton	Md.	808 11th Street, N. E.
Bailey, William Otis	D. C.	1217 N Street.
Boody, Clyde Bruce	Minn.	1521 Vermont Ave.
Brock, Charles Le Roy	D. C.	Sibley Hospital.
Burhen, Archer George	Ohio	1326 L Street.
Burnett, Roy Edgar	Okla.	1530 O Street.
B.S., 1905, Oklahoma Agricultural and Mechanical College.		
Castleman, Philip	Mass.	902 Westminster St.
Christiansen, Elmer Erastus	Utah	Coast and Geodetic Survey.
Cox, Clem	W. Va.	322 C Street, S. E.
Crane, Charles George	N. J.	1530 O Street.
B.S., 1907, Wesleyan University.		
Crown, James Edmund	D. C.	221 10th Street, S. E.
Davis, Ernest Jordan	Va.	810 H Street.
Downey, (Mrs.) Alice Winans	D. C.	2473 18th Street.
Dyer, John Christopher	Ohio	310 10th Street, N. E.
Eisenberg, Arthur	D. C.	1213 4½ Street.
Ellison, Everett Monroe	D. C.	150 U Street.
A.B., 1901, A.M., 1903, Grant University.		
Eppard, George Irving	D. C.	1921 G Street.
Fisher, Charles Albert	Pa.	38 I Street, N. E.
Fontaine, Edward Ridd	N. C.	Office of Auditor for War Dept.
Garlock, Charles Washington	Ill.	Navy Dept.
Gibson, Richard	Va.	Alexandria, Va.
Phar.D., 1896, National College of Pharmacy.		
Hales, Cecil Stanton	N. C.	920 New York Ave.
Hayton, Charles Henry	So. Africa	Takoma Park.
B.A., 1898, Battle Creek College.		
Hunt, Isaac Burton	Tenn.	508 10th Street.
Ingle, Ernest Wilfred	So. Africa	1528 9th Street.
Irmen, Felix Arnold	D. C.	212 Morgan Street.
Jaeger, Henry William	D. C.	15 4th Street, S. E.
Janer Marquez, Ramón Isaac	Porto Rico	2213 H Street.
Jewell, Benson Mundy	Ill.	716 19th Street.

Name.	Legal residence.	City address.
Kemeys, William	D. C.	1633 29th Street.
Kisseleff, John	D. C.	1030 North Capitol St.
Lashhorn, Charles Marian	Mont.	503 2d Street, S.E.
Leone, Charles	N. Y.	727 13th Street.
Madison, James W.	Kansas	618 F Street, N. E.
Molzahn, Albert John. B.S., 1906, Fremont College.	Nebr.	1017 P Street.
Mooers, Harold Alonzo	D. C.	Takoma Park.
Oliver, Harry Waterhouse	N. D.	1631 R Street.
Parks, Anderson Woods	Colo.	509 10th Street.
Pitt, Richard Vernon	Va.	816 18th Street.
Ralph, Charles Edward	Ill.	215 E Street.
Ramsay, James Glenn	Pa.	714 10th Street.
Shoemaker, Ralph Waldo	D. C.	3116 P Street.
Smith, Arthur	N. Y.	513 6th Street.
Thompson, Alexander Contee. A.B., 1907, University of Maryland.	D. C.	820 11th Street.
Zimmerman, Carl George	N. Y.	513 6th Street.
Zinkhan, Paul Hudson. A.B., 1906, Johns Hopkins University.	Md.	19th & C Streets, S. E.

Second Year.

Amoss, Harold Lindsay. B.S., 1905, Kentucky State College.	Ky.	Bureau of Chemistry.
Beauchamp, Ellis Franklin	Va.	1209 C Street, N. E.
Brewer, Gilbert Roscoe	Ill.	1518 Kingman Place.
Davis, George von Pullinger	D. C.	1307 9th Street.
Duenner, Robert Henry	Tenn.	1700 15th Street.
Elliott, Leo Louis	N. Y.	513 6th Street.
Fetzer, Lewis William. Grad. Chem., 1900, Cooper Institute.	N. Y.	Md. Agric. Exper. Sta.
Goss, Audrey. A.B., 1902, Kansas University.	Kansas	The Ethelhurst.
Herring, Katherine	Iowa	The Savoy.
Hoover, George William. M.S., 1906, The George Washington University.	Okla.	Bureau of Chemistry.
Hornaday, Frank Adelbert. B.S., 1907, The George Washington University.	Texas	234 Post Office Bldg.
Huntington, William Henry	D. C.	2330 Massachusetts Ave.
Jureij, Jurji Abraham Jacob	Syria	1402 L Street.
Kerby, James Philip	D. C.	2606 L Street.
Kinner, Jesse Lee	N. Y.	513 6th Street.
Klingerman, George Elliott	Pa.	Takoma Park.

Name.	Legal residence.	City address.
Lewis, Harry Samuel	D. C.	54 I Street.
Loop, Floyd Addison	Pa.	1300 Massachusetts Ave.
McLoone, John Joseph	Pa.	717 H Street.
A.B., 1905, Catholic University.		
Phar.D., 1904, National College of Pharmacy.		
McMillan, Walter Alexis	S. C.	1317 F Street.
Medley, Thomas Charles	La.	1324 I Street.
Morian, Clarence Herbert	Pa.	1230 11th Street.
Nelson, Nesmith	Minn.	49 T Street.
Neville, James Alan	Nebr.	2021 H Street.
Norris, James Walter	Md.	Treasury Dept.
Paige, Wendell Arthur Heath	Vt.	1602 Vermont Ave.
Peyton, Harry Alexander	Pa.	1744 Riggs Street.
Piburn, John Logan	Mo.	3483 Holmead Ave.
Price, Walter	D. C.	438 N. J. Ave., S. E.
Ross, Erwin Worth	N. C.	1700 15th Street.
Rougeou, Charles Franklin	La.	1913 Penna. Ave.
Scanlon, Franklin Taylor	W. Va.	1721 G Street.
B.L., 1904, University of Nashville.		
Sharp, George Tarplit	D. C.	Cleveland Park.
Silberstrom, Paul	Russia	237 H Street, N. E.
Sinclair, Leith Llewellyn	Va.	327 M Street, S. E.
Tibbets, Albert Perkins	N. H.	1018 14th Street.
A.B., 1907, The George Washington University.		
Titus, Elijah White	Va.	Children's Hospital.
Phar.D., 1906, The George Washington University.		
Waller, Clifford E.	Ala.	G. W. U.
White, Lyle Charles	Ohio	1211 N. Capitol Street.
Williams, Robert Cleveland	N. C.	920 New York Ave.
A.B., 1907, University of North Carolina.		
Young, Clifton Eugene	D. C.	2509 Wisconsin Ave.

Third Year.

Bales, Ernest Norment	Calif.	National Museum.
Ph.G., 1903, Ohio Institute of Pharmacy.		
Beale, Kenneth Foster	Md.	831 7th Street.
Brooks, James Joseph Lester	Pa.	465 Florida Ave.
Chappell, Sidney Lovett	D. C.	3901 Grant Road.
Chartters, George Chancellor	Va.	502 3d Street, S. E.
Chichester, Harry Denison	Texas	Dept. of Commerce and Labor.
Collins, James Cleveland	Va.	1437 S Street.

Name.	Legal residence.	City address.
Clark, Albert Patton	D. C.	Garfield Memorial Hospital.
Phar.D., 1905, National College of Pharmacy.		
Craft, Clarence Christian	S. C.	1116 10th Street.
B.S., 1902, South Carolina Military Academy.		
Eldridge, Watson William, Jr.	Md.	316 Md. Ave., N. E.
Fair, Charles Hardy	Va.	732 21st Street.
French, Sanford Williams	N. Y.	Naval Medical School. 24th & E Streets.
Frey, John Paul	D. C.	1224 30th Street.
Glennan, Kenneth Rayner	Md.	Chevy Chase, Md.
Gochenour, David Thomas	Va.	28 R Street.
Bach. Engr., Bridgewater College.		
Griffin, Clarence Herbert	Mass.	3800 14th Street.
B.S., 1904, Massachusetts Agricultural College.		
Higgins, Daniel Witter	Md.	146 11th Street, N. E.
Hoey, John Joseph	R. I.	1825 H Street.
Jobson, William Russell	Pa.	Y. M. C. A.
Kavanagh, James Edward	Mass.	1167 19th Street.
Keneipp, Edgar Percy	Ill.	136 D Street, S. E.
Klugh, George Fred	S. C.	1327 Newton Street, Brookland, D. C.
B.S., 1901, Clenson Agricultural College.		
Lind, John Edward	D. C.	506 A Street, N. E.
McEnery, Douglas Wiltz	La.	1167 19th Street.
B.A., 1903, Tulane University.		
Machler, Francis Patrick	Ill.	110 4th Street, N. E.
McKnight, Frederick W	Ohio	The Naples.
McLaughlin, William Frank	Pa.	Emergency Hospital.
Mata, Carlos	Costa Rica.	1412 I Street.
Micheloni, Louis Antony	Uruguay	P. O. Box, No. 8.
Neail, Howard William	N. Y.	1309 H Street.
Nelson, Cyrus William	Okla.	101 Rhode Island Ave.
B.S. in Chem., 1903, Oklahoma Agricultural and Mechanical College.		
Pole, Samuel Boyce, Jr	D. C.	216 8th Street, N. E.
Powell, Robert Llewellyn	Va.	934 O Street.
Rhees, Benjamin Rush	D. C.	1853 Ontario Place.
Rozzelle, Keith Kistler	N. C.	1129 E Street, N. E.
Simonton, Lawrence Joseph	Ind.	2114 18th Street.
Sisco, Henry Nathaniel	D. C.	1602 Vermont Ave.
A.B., 1898, Battle Creek College.		
Sorensen, Antone Christian	Utah	1115 I Street.

Name.	Legal residence.	City address.
Vasenius, Frederick Walter	Finland	1210 12th Street.
Weidemann, Clarence Conrad	D. C.	1237 Girard Street.
Weiler, George Leo	Utah	510 3d Street.
Weithas, Richard C.	D. C.	1218 12th Street.
White, Gershom Franklin	Ohio	The Brunswick.
B.S., 1901, Ohio University.		
Ph.D., 1905, Cornell University.		
Willis, Harry Clay	N. C.	932 K Street.
Willis, John Mitchell	W. Va.	Sibley Hospital.
Wood, William Pleasant	Ohio	3285 M Street.

Fourth Year.

Avery, Frederick Scott	Mich.	2808 N Street.
Bossert, Clarence Sanborn	Wisc.	814 22d Street.
Bowers, John Edson	Ind.	608 21st Street.
Brown, Frank J.	Iowa	49 T Street.
Browning, Andrew Johnson	Md.	1306 O Street.
Bryan, William Alvin	Iowa	1167 19th Street.
Cliff, Benjamin Franklin	N. C.	2804 14th Street.
Compton, Arthur George	D. C.	Children's Hospital.
Conklin, Rush West	Kansas	Hyattsville, Md.
Coster, Leonard Martin	D. C.	813 East Capitol Street.
Davis, Ezra McKnight	S. C.	1311 K Street.
Dollman, Clarence Mazarine	Va.	Garfield Hospital.
Dunmire, Roy Franklin	Pa.	Mt. Rainier, Md.
Dunn, Abner Beebe	Pa.	University Hospital.
Everett, Ernest Day	Mo.	23 Q Street.
A.B., 1899, Baker University.		
Garnett, Algernon Sydney	Va.	1021 Vermont Ave.
Gehringer, George Matthew	Pa.	910 19th Street.
Grant, John Lee	Va.	1234 Duncan St., N. E.
Griffith, Thomas Everett	Pa.	718 4th Street, S. E.
Hart, George H.	Pa.	1700 15th Street.
V.M.D., 1903, University of Pennsylvania.		
Hewitt, Arthur William	Ohio	1300 Mass. Ave.
Hopkins, John Wilson	Minn.	1201 Q Street.
Horgan, Edmund Joseph	D. C.	1167 19th Street.
Irbysmith, William Marion	Ky.	1116 C Street, N. E.
A.B., 1901, A.M., 1901, Georgetown College, Kentucky.		
Lamkin, Joseph Bayard	Ga.	Pension Office.
Lawrence, Charles Solomon	N. C.	Columbia Hospital.

Name.	Legal residence.	City address.
Lee, Thomas Alexander, Jr.	D. C.	1721 Riggs Place.
Littlefield, John Ramsey	D. C.	Emergency Hospital.
MacKnight, Robert Stanley	Mich.	5508 Wisconsin Ave.
Maxwell, Maurice Hopkins	Md.	Methodist Home.
Molzahn, Herman Emil	Minn.	1017 P Street.
Neate, John Sweyn	D. C.	3009 Dumbarton Ave.
Noyes, Edward Rogers	D. C.	1014 S. C. Ave., S. E.
Ong, Harry Alfred	Ohio	917 S Street.
Oswell, Charles Arthur	N. Y.	1864 Wyoming Ave.
Patterson, Orra Edgar	Ill.	830 13th Street.
Pyne, Herbert Samuel	Utah	915 M Street.
Quick, Ralph Andre	Va.	University Hospital.
Russell, Riley	Ill.	2 Iowa Circle.
Ryan, Bernard St. Elmo	Va.	1301 Corcoran Street.
Scott, William Bertram B.Lit., 1896, B.S., 1906, Willammette University.	Ore.	The Geo. Wash. Univ.
Sherwood, John Wesley	Md.	1167 19th Street.
Simons, Harry Emmerich	D. C.	212 A Street, S. E.
Smith, Ernest Wellington	W. Va.	1825 F Street.
Sullivan, James Francis A.B., 1903, Holy Cross College.	R. I.	Casualty Hospital.
Tayloe, Harry Marbury	Va.	1326 Corcoran Street.
Taylor, Edward B.S. in Phar., 1903, Alabama Polytechnic Institute.	Ala.	1305 P Street.
Tewksbury, William Davis	Colo.	Soldiers' Home Hospital.
Thomas, William Joshua Groot	D. C.	1316 13th Street.
Thompson, Lewis Royer A.B., 1900, Ursinus College.	Pa.	309 M Street.
Turnbull, Samuel Jay	Fla.	815 12th Street.
Waldecker, Franz Carl	Kansas	1444 Harvard Street.
Watson, John William	D. C.	Wash. Asylum Hospital.
Weber, Frederick Clarence B.S., Ohio State University.	Ohio	1700 15th Street.
Whamond, Frederick Gordon	Ill.	1234 Duncan St., N. E.
Wheatley, Charles	Md.	Bethesda, Md.
Wheeler, Arthur Joseph	Ill.	1601 15th Street.
White, Eben Wesley	N. Y.	1504 Vermont Ave.
Wilcox, Horace Leroy	Pa.	2610 University Pl.
Wilhelm, Joseph Victor	Ill.	Navy Dept., Rm. 362.
Wolfe, James Thruston	Va.	815 15th Street.
Wolfe, Rowland Daniel	Md.	1333 H Street.

Special.

Name.	Legal residence.	City address.
Martin, Aaron Wise	Va.	1829 F Street.
Swingle, Edwin Allan	D. C.	344 D Street.

LL.B., 1906, LL.M., 1907, The George Washington University.

Review.

Curry, Joel Toy	D. C.	26 Seaton Street.

M.D., 1897, Columbian University.

Summary.

CANDIDATES FOR THE M.D. DEGREE:

First year	46	
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DEPARTMENT OF DENTISTRY.

Doctor of Dental Surgery.

First Year.

Name.	Legal residence.	City address.
Armstrong, Stanley Everton	W. Indies	933 K Street.
Becker, George Heilman	D. C.	1012 18th Street.
Birckhead, Fred Courtney	D. C.	421 G Street.
Butterfield, Louie Watson	Iowa	229 P Street.
Cary, Fred	N. Y.	The Orme, 10th & E Sts.
Eastman, Erwin Chapman	Conn.	Naval Medical School Hospital.
Ebeling, Albert Henry	N. Y.	Naval Medical School Hospital.
Eslin, Melville Palmer	D. C.	637 Md. Ave., N. E.
Harrison, William Sloane	S. C.	1416 K Street.
Harrison, Wilson Allyn	Conn.	714 10th Street.
Hoffman, Thomas	Mass.	George Wash. Hotel.
Hurwitz, Maurice	Mass.	George Wash. Hotel.
King, James Luin Gibbs	D. C.	Takoma Park, D. C.

Name.	Legal residence.	City address.
Lambeth, Roland Carter Hill	Va.	113 N. Columbus St., Alexandria, Va.
Nelson, Leo	N. Y.	Post Office Dept.
LL.B., 1897, New York City University.		
Pearce, Waldo Roberts	D. C.	1212 L Street.
Pelton, Charles Rexford	Mich.	1014 D Street, N. E.
Robinson, James Norris	W. Va.	314 2d Street, N. E.
Seward, William Brown	Ohio	1720 H Street.
Ph.G., 1901, Ohio Medical University.		
Sherfy, Raphael	D. C.	3019 11th Street.
Solbach, Leo William	Md.	252 8th Street, S. E.
Ward, Wilson Stewart	Md.	Chamberlain Club.
Whitaker, Walter Eugene	Utah	Station L, Anacostia, D. C.
Whitmarsh, Paul	D. C.	2031 1st Street.

Second Year.

Angelo, Guy Wilson	Va.	1230 13th Street.
Barnhard, William Harry, Jr	Ohio	1112 10th Street.
Bear, Ewing Marvin Wood	D. C.	912 I Street.
Cannon, Claude Quayle	Utah	916 Massachusetts Ave.
Goldberg, Max Samuel	D. C.	627 D Street.
Irby, Charles Rufus	Va.	1333 H Street.
Marsh, Bradford Cleveland	R. I.	1339 Irving Street.

Third Year.

Addison, William Richard	Wisc.	500 G Street, N. E.
Bernhard, James Walter	Pa.	82 S Street.
Boarman, Alan Smith	Md.	807 H Street.
Britton, Emlyn James	Pa.	Washington Barracks.
Clark, Robert Henry	Ind.	Naval Med. School Hospital.
Cummings, Alfred William	Kansas	1512 1st Street.
Fairfield, Thomas Leon	D. C.	812 12th Street.
Gash, Arthur Wellesley	R. I.	517 6th Street.
Grubbs, John Alexander	Va.	1512 1st Street.
Helmig, Casper Florian	Mo.	Govt. Printing Office.
Higgins, Charles Millington	W. Va.	Civil Service Com.
Hildreth, Walter Henry	N. Y.	1533 15th Street.
A.B., 1892, A.M., 1904, Amherst College.		
Hopkins, Herbert Cornwell	D. C.	Manor House.
Houghtelin, William Clarence	Kansas	1018 12th Street.

Name.	Legal residence.	City address.
Humeston, Andrew	Conn.	1301 K Street.
Johnson, Harry Dow	Mo.	Geological Survey.
Murdoch, Herbert Spencer	Mo.	937 H Street.
Peck, George Francis	N. J.	The Brunswick.
Smitten, George	D. C.	1316 I Street.
Truett, Robert Finley	Ky.	2523 University Place.
Young, Henry Cissel	Md.	937 H Street.

Summary.

CANDIDATES FOR THE D.D.S. DEGREE:

First year	24
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	52

DEPARTMENT OF LAW.

Bachelor of Laws.

First Year.

Name.	Legal residence.	City address.
Allee, James Frank, Jr.	Del.	The Oxford.
Altizer, Posey John	Va.	General Land Office.
Black, Charles Frederick	Vt.	1404 15th Street.
Ph.B., 1907, University of Vermont.		
Blount, Walter Eames	D. C.	The Burlington.
Brantley, William Gordon, Jr.	Ga.	1824 V Street.
A.B., 1907, University of Georgia.		
Brookes, John St. Clair, Jr.	D. C.	1525 Corcoran Street.
A.B., 1907, The George Washington University.		
Calder, Albert Russell	Pa.	917 N. C. Ave.
Camp, Ernest Wright	Mich.	New Varnum Hotel.
Clagett, Henry Noble	Md.	Second National Bank.
Crafts, Frederick Albert	Mass.	206 Penna. Ave., S. E.
Dahn, Franz Frederick William	Iowa	1515 O Street.
Dodson, James Dunbar	D. C.	1714 F Street.
Ellis, John De Moss	Ky.	1530 I Street.
A.B., 1907, University of Cincinnati.		
Everett, Frank Orear	Mo.	1307 K Street.
Faulkner, William Ernest	Ky.	455 G Street.
B.A., 1907, Union College.		
Fauntleroy, John Smith Young	La.	House of Representatives.
A.B., 1905, Louisiana State University.		

Name.	Legal residence.	City address.
Ford, Frank Farnsworth	Mich.	1931 K Street.
Gates, Edward Percy	D. C.	3506 Center Street.
Graff, William Archibald	Va.	231 1st Street.
Graham, Lesley Stone	Pa.	The Susquehanna.
B. Letters, 1906, Bethany College, West Virginia.		
Grover, William Robinson	Mich.	926 8th Street.
Ph.B., 1907, Kalamazoo College.		
Guasp, Ignacio	Porto Rico.	The Westover.
Hastings, Grover Cleveland	D. C.	1421 Chapin Street.
Hellen, Arthur	D. C.	1731 20th Street.
Herrero Ramirez, Juan	Porto Rico.	2213 H Street.
Hill, Herman Henry	N. H.	520 B Street, N. E.
A.B., 1907, Dartmouth College.		
Holcombe, Amasa Maynard	Mass.	1404 Mass. Avenue.
B.S., 1904, Massachusetts Institute of Technology.		
Holmes, Patrick Douglas	Va.	3319 O Street.
Hubbard, Lyle	Iowa	1631 R Street.
Hupper, Roscoe Henderson	Me.	812 East Capitol St.
A.B., 1907, Bowdoin College.		
Kenway, Herbert Winthrop	Mass.	3014 Dent Place.
Kitselman, Harry Louis	Ind.	The Burlington.
Lambert, Chester Cromer	D. C.	1345 14th Street.
LeDuc, Louis Bronson	D. C.	1403 21st Street.
Luzuriaga, Hector Ruiz de	Porto Rico.	Care of Bureau of Insular Affairs.
McClenon, Walter Holbrook	S. D.	80 V Street.
A.B., 1907, Iowa College.		
Mackenzie, Robert Lundie	Ore.	531 18th Street.
Matthews, Emerson Waldo	Ohio	1742 S Street.
A.B., 1891, Butler College.		
A.M., ——, Harvard University.		
Norris, Raymond Stonestreet	Md.	Treasury Dept.
Oberlin, John Jay	Md.	Patent Office.
A.B., 1901, Washington and Lee University.		
O'Neal, Warwick Christy	D. C.	807 Varnum Street.
C.E., 1906, Pennsylvania Military College.		
Parker, Francis Joseph	S. D.	904 Massachusetts Ave.
Pease, Ferdinand Henry	Vt.	823 13th Street.
B.A., 1907, University of Vermont.		
Platt, Doran Stanley	D. C.	Takoma Park.
Rehn, Frank Knox Morton	N. Y.	1017 16th Street.
Samson, George Roy	Ill.	2034 I Street.
B.A., 1902, B.S., 1905, University of Illinois.		

Name.	Legal residence.	City address.
Schultz, Detlef Henry	Ind.	1226 16th Street.
Schoenfeld, Hans Fred. Arthur	N. J.	1733 20th Street.
A.B., 1907, The George Washington University.		
Seiler, Justin Frank	Ohio	123 12th Street, N. E.
Simmons, Berkeley Leo	D. C.	1421 Belmont Street.
Simmons, William Wyatt	Miss.	1309 H Street.
B.A., 1905, Mississippi College.		
Sincerbeaux, Chauncey Milton	N. Y.	1120 16th Street.
A.B., 1905, Yale University.		
Singleton, Ogle Ridout	D. C.	2020 H Street.
Smith, Conger Ryder	Mich.	1226 16th Street.
Smith, Thomas William	Idaho	1810 G Street.
Smithers, Nathaniel Barratt	Del.	2002 G Street.
Stanton, James Hill	Del.	11 Grant Place.
Stockslager, William Morse	Idaho	33 B Street.
A.B., 1907, Valparaiso University.		
Sutherland, Geo. John Alexander	Wash.	1446 N Street.
Swift, John Tuttle	Mass.	531 18th Street.
Taylor, Kenneth	D. C.	1433 Belmont Street.
B.S., 1907, Carleton College.		
Thompson, Oscar	Wisc.	Treasury Dept.
Van Vleck, William Cabell	D. C.	800 E Street, N. E.
Wagstaff, Harry Andrews	D. C.	1328 New York Ave.
Waters, William Clark	D. C.	1416 New York Ave.
White, Herbert William	Iowa	1226 16th Street.
Ph.B., 1907, Simpson College.		
Wyatt, Hardee	N. Mex.	823 13th Street.
B.A., B.S., L.I., 1900, University of Nashville.		
Zirkle, Joseph Claiborne	Va.	1501 12th Street.

Second Year.

Aldrich, Charles Roberts	Ill.	The Benedick.
B.A., 1903, Yale University.		
Arlitt, John Louis	Texas	2024 G Street.
Barr, James	Wisc.	2024 G Street.
Barrick, Henry Llewellyn	Nebr.	The Plymouth.
Biddle, Milton Scott	W. Va.	2024 G Street.
Bigoness, Octave Adelbert	D. C.	Little Falls Road, D. C.
Birney, William McDonald	D. C.	1516 22d Street.
Briggs, Benjamin Franklin	Me.	1306 13th Street.
Burson, Edgar Ferrall	Kansas	1334 B Street, S. E.
Carpenter, Walter Clayton	R. I.	The Mendota.
Ph.B., 1906, Brown University.		

Name.	Legal residence.	City address.
Caywood, Charles Chester	D. C.	1629 Newton Street.
Childs, Frederick Willard	Vt.	The Champlain.
Clark, Chester Morrow	D. C.	Florence Court.
Cragin, Harry Seymour	D. C.	1013 L Street.
Dallwig, Paul	Wisc.	903 13th Street.
Dalzell, Robert Duff	Pa.	1605 N. H. Ave.
A.B., 1905, Yale University.		
Davenport, Lewis Howard	N. Y.	2624 University Place.
DeLancy, Roi	Ohio	1226 12th Street.
Finney, Harry Whiting	D. C.	2204 Q Street.
Gaines, John Wesley, Jr.	Tenn.	1437 Rhode Island Ave.
Garrett, Clyde Davis	D. C.	945 O Street.
Gonzalez, Antonio Cornelius, Jr.	N. Y.	1417 K Street.
Graves, Pleasant Fowler	Texas	1514 K Street.
Ph.B., 1905, Southwestern University.		
Haselton, George Irving	N. H.	1517 P Street.
Hemmick, Frank Schley	D. C.	The Franklin.
Homer, John Albert	Utah	1706 F Street.
Horner, Errol Osman	N. J.	Y. M. C. A.
Hutchins, Wells Aleck	D. C.	1315 Riggs Street.
Jenkins, Warren Maxwell	Pa.	1517 P Street.
A.B., 1906, Grove City College.		
Johnson, Elbert Culbreth	Wash.	942 K Street.
Johnston, Cecil Wallace	Pa.	1517 P Street.
Kelly, Jerome Elmer	S. D.	Senate Post Office.
Koons, George Hickman	Ind.	The Geo. Wash. Univ.
Lawburgh, Robert Lee	Ind.	923 L Street.
A.M., 1905, De Pauw University.		
Micou, Richard Dunnica	Va.	Home Life Bldg.
B.A., 1903, M.A., 1903, University of Virginia.		
Miller, Walter Karl	Kansas	618 F Street, N. E.
Morrow, James Benjamin	D. C.	3123 13th Street.
Nyemaster, Jesse Ray	Iowa	312 Md. Ave., N. E.
Patterson, Matthew Waren	Ark.	1391 F Street, N. E.
Pearce, Harry Hamlin	Mich.	1700 15th Street.
A.B., 1905, Albion College.		
Pillow, Gideon Johnston	La.	1464 Clifton Street.
Smoot, John Daniel Kurtz	Va.	Langley, Va.
Stonebraker, Harold English	Pa.	645 Mass. Ave., N. E.
Stuart, Paul Allison	Pa.	The Alabama.
A.M., 1906, Washington and Jefferson College.		
Sullivan, Horace Moore	Tenn.	230 North Capitol St.
Swenarton, Harold Augustus	N. J.	2002 G Street.
Ph.B., 1905, Yale University.		

Name.	Legal residence.	City address.
Thomas, Bert Carl	Ohio	1615 Florida Avenue.
Tucker, John Randolph	Va.	602 Cameron Street, Alexandria, Va.
Tyrer, Arthur James	Wash.	The Albemarle.
Wagner, Harold J	N. Y.	Dept. of Justice.
Whiting, Roscoe Everett A.B., 1901, Bowdoin College.	Wash.	Stratford Hotel.
Whitney, William Milton A.B., 1903, Ohio Wesleyan University.	Ohio	2900 Wisconsin Ave.

Third Year.

Alden, Henry Palmer	D. C.	1308 S Street.
Allen, Charles Louis	S. D.	1700 15th Street.
Ambrose, George Lewis	Mont.	General Land Office.
Arundell, Charles Rogers	D. C.	1636 R Street.
Atwell, Howard Johnson	Va.	Dept. of Agriculture.
Baker, Arthur George B.A., 1903, Amherst College.	Mass.	1205 Q Street.
Banning, Archibald Tanner, Jr... A.B., 1904, Cornell University.	N. Y.	1445 Mass. Ave.
Barker, William Judson	D. C.	142 13th Street.
Barndollar, Burton Hack	Pa.	3510 N. H. Ave.
Beall, John Christopher Wagner..	D. C.	1016 East Capitol St.
Bell, Colley Wood	D. C.	Interstate Commerce Commission.
Berger, Bertram Philip	N. Y.	Civil Service Com.
Betts, Frank Marshall	Ark.	315 H Street.
Binsted, John Henry	D. C.	Conduit Road.
Biscoe, John Edward Grad. Engr., 1904, Virginia Military Institute.	D. C.	The Farragut.
Boesch, Harry Luther	D. C.	616 E Street, N. E.
Bowen, Frank Hunter	Mass.	Dept. of Commerce and Labor.
Bowyer, Joseph McCarter B.S., 1904, Princeton University.	Pa.	1110 F Street.
Brandenburg, Edgar Thomas	Pa.	Loan and Trust Co. Bldg.
Bruninga, John Hermann	Ill.	Patent Office.
Campbell, Paul	Tenn.	230 North Capitol St.
Carr, Ira J	Mich.	Treasury Dept.
Carrington, Edmund	D. C.	Mt. Vernon Apartments.
Christensen, Andrew	Utah	508 Ouray Building.
Claughton, Richard Edgar	D. C.	The Plaza.

Name.	Legal residence.	City address.
Couden, Fayette Dickinson	Mass.	1310 Columbia Road.
B.S., 1904, Massachusetts Agricultural College.		
Cutler, Harold Bert	Iowa	1700 15th Street.
Dane, Walter Alden	Vt.	The Lenox.
B.A., 1903, University of Vermont.		
Davidson, Arthur William	Ohio	19 Grant Place.
A.B., 1899, Western Reserve University.		
Davis, Horace Webber	Pa.	Patent Office.
B.S., 1905, Washington and Jefferson College.		
Duffey, Louis Nelson	Va.	Alexandria, Va.
Durham, Harry Blaine	Nebr.	1309 H Street.
Ph.B., 1904, Nebraska Wesleyan University.		
Edgerton, Frank Eugene	Nebr.	8 8th Street, S. E.
Ellis, Leonidas Wilson	Ala.	1304 L Street.
Fravel, F. Russell	Mass.	1015 H Street.
Glennan, Arthur Wyman	D. C.	Chevy Chase, Md.
Guy, Walter Bohrer	D. C.	315 9th Street.
Ph.B., 1905, Lafayette College.		
Haines, Milton	Ohio	Capitol.
B.S., 1898, Ohio Northern University.		
Hallam, Paul Rankin	Ky.	504 Seward Sq., S. E.
Hardy, Edward Hugh	Ala.	1117 I Street.
Hartson, Clinton Henry	Wash.	2003 G Street.
Hendry, Moses Walton	Md.	Bethesda, Md.
A.B., 1903, Johns Hopkins University.		
Henry, Samuel Joseph	D. C.	Nat'l Savings and Trust Company.
Hepburn, Louis Frederick	Pa.	Rm. 18, McLean Bldg.
Hichborn, Philip Simmons	D. C.	1723 21st Street.
Hindman, Albert Clare	Pa.	1208 M Street.
Hinshaw, Howard Raymond	Nebr.	The Donald.
Holmes, Rexford Louis	Mo.	1114 D Street, N. E.
Hughey, Allen Harrison	Texas	Geological Survey.
B.A., 1903, Vanderbilt University.		
Ilustre, Eustacio S.	P. I.	726 12th Street.
Jensen, John	Utah	915 M Street.
B.A., 1906, University of Utah.		
Jones, Charles Andrews	D. C.	1319 F Street.
Jones, George Bayard	Mo.	Y. M. C. A.
B.S., 1905, Massachusetts Institute of Technolgy.		
Jones, Robert McGuire	Va.	1736 G Street.
B.A., 1902, William and Mary College.		
Kartack, Roy Ernest	Wisc.	1306 13th Street.

Name.	Legal residence.	City address.
Kellett, Joe Cabot	Ala.	935 K Street.
B.S., 1905, Agricultural and Mechanical College, Oklahoma.		
Kester, Bruce Randall	Pa.	The Brunswick.
Law, Frank A., Jr	D. C.	1627 14th Street.
Levin, Michael	Wisc.	Dept. of Commerce and Labor.
Lewis, Henry Latané	Md.	1413 G Street.
Lohm, Albert Lafayette	W. Va.	House of Representatives.
McClellan, George Browning	Hawaii	The Cumberland.
McNeal, Ira Bennett	Pa.	1313 K Street.
A.B., 1898, Dickinson College.		
McNeill, Frank Augustus	Va.	1368 Newton Street.
Mancha, Henry Howard	Mich.	1311 K Street.
Matthew, Allan Pomeroy	Calif.	The Donald.
A.B., 1903, University of California.		
Mason, Lucius Randolph	Md.	1114 14th Street.
Mears, George Edwin	Mass.	1904 G Street.
A.B., 1904, Williams College.		
Merrill, Henry Petingale	D. C.	1760 Willard Street.
Miller, William Lewis	D. C.	500 5th Street.
Mitchell, Paul	Pa.	19 Grant Place.
A.B., ——, Allegheny College.		
Morris, Charles Meyer	Utah	15 6th Street, N. E.
Morris, Jackson	Ky.	1723 Willard St.
Mueller, Curt Berthold	Ohio	1406 L Street.
A.B., 1906, Cornell University.		
Murphy, William Ashford	Wash.	1103 10th Street.
Neal, Chester Trenholm	Mass.	1120 16th Street.
B.A., 1905, Yale University.		
Owen, Claud Worthington	Md.	1331 G Street.
Owens, Charles Francis	Md.	464 Louisiana Ave.
Packard, Edwin Augustus	Mass.	226 2d Street, N. E.
B.S., 1899, Massachusetts Institute of Technology.		
Patterson, James Frosst	D. C.	Rm. 625 Mills Bldg.
Patterson, Walter Watts	Ga.	1229 New York Ave.
A.B., 1905, University of Georgia.		
LL.B., 1907, Grant University.		
Peake, William Thomas	D. C.	121 10th Street, N. E.
Phair, Philip DeWitt	Me.	131 A Street, N. E.
M.A., 1906, Harvard University.		
Phillips, Adon Daniel	N. Y.	715 Lawrence Street.
B.S., 1906, The George Washington University.		

Name.	Legal residence.	City address.
Phillips, Ivon William	N. Y.	3560 11th Street.
Pretzfelder, Leon	Va.	1727 U Street.
Ramsey, George William	Ill.	Patent Office.
Rathbun, Don Seavey	Iowa	1700 15th Street.
B.S., 1904, Cornell College.		
Rehr, Paul Allen	Pa.	Rm. 423, Y. M. C. A.
Riddleberger, Harrison Heath	Va.	U. S. Senate.
Roberts, Ora Herbert	Ind.	802 D Street, N. E.
Rutherford, Reginald	Md.	922 French Street.
Sanderlin, George Bismark	N. C.	421 4th Street.
A.B., 1899, A.M., 1900, Johns Hopkins University.		
Scantling, Philip Lee	D. C.	1416 F Street.
Sherican, James MacDermott	Colo.	1800 F Street.
Smith, Dyer	Pa.	The Woodley.
M.E., 1903, Lehigh University.		
Smith, Ellison Griffith	S. D.	1700 15th Street.
Smith, George Thomas	Md.	3635 11th Street.
Staples, Eugene Washington	Me.	Chevy Chase, Md.
Stein, Simon Bernard	Mass.	904 Westminster Street.
Stull, Howard William	Pa.	1419 R Street.
Sunderlin, Charles Algernon	Nebr.	The New Berne.
A.B., 1907, Nebraska University.		
Sunderlin, Louis Kossuth	Iowa	The New Berne.
Swayze, Samuel	N. J.	1614 Rhode Island Ave.
Taylor, Louis Ralph	Ill.	The Iroquois.
Triplett, George Vest, Jr	Ky.	1209 K Street.
LL.B., 1907, Central University, Kentucky.		
Turner, Robert Hite	Va.	The Brunswick.
Twyeffort, Frank Hubbard	N. Y.	1736 G Street.
Ulke, Titus	D. C.	411 15th Street.
B.S., 1885, The George Washington University.		
E.M., 1889, Royal Academy of Mines, Freiberg, Saxony.		
Veley, Omar Jay	N. Y.	1369 Emerson St., N. E.
Weddell, Alexander Wilbourne	Va.	1901 I Street.
West, William Kemper	Ky.	1808 Belmont Road.
Whippler, Frederic R	D. C.	The Cairo.
Willett, Presley Willis	Wash.	1800 U Street.
B.S., 1902, Lebanon University.		
Willis, Robert Chadwick	N. C.	1307 Corcoran Street.
A.B., ——, Guilford College.		
Wilson, Ira Jay	Wisc.	Rm. 112, Patent Office.
Woolsey, Lester Hood	N. Y.	1404 Park Road.
A.B., 1901, Harvard University.		

Master of Patent Law.

Name.	Legal residence.	City address.
Acker, Samuel Nicholas	D. C.	Warder Bldg.
LL.B., 1906, National University.		
Ballard, William Reed	Ind.	Patent Office.
LL.B., 1907, The George Washington University.		
Blair, Paul Alexander	Conn.	918 F Street.
Bryant, Theodore Keller	N. Y.	331 11th Street, N. E.
LL.B., 1897, LL.M., 1898, Cornell University.		
Burke, Moncure	D. C.	1802 Wyoming Ave.
LL.B., 1904, National University.		
FitzGerald, Shepler Ward	D. C.	3535 11th Street.
LL.B., 1907, The George Washington University.		
Giles, Louis Edward	Mich.	117, The Ontario.
B.S. in E.E., 1902, LL.B., 1907, The George Washington University.		
Graham, William Samuel	D. C.	1338 R Street.
LL.M., 1907, National University.		
Grindle, Charles Stanton	Ohio	3025 15th Street.
LL.B., 1907, National University Law School.		
Hallam, Paul Rankin	Ky.	504 Seward Sq., S. E.
LL.B., 1908, The George Washington University.		
Hopkins, Fred Merriam	Mich.	Patent Office.
Kerkam, William Barron	D. C.	620 F Street.
LL.B., 1906, LL.M., 1907, National University.		
Lewers, Albert	Nev.	Patent Office.
LL.B., 1907, National University.		
Lucke, Henry John	Md.	Patent Office.
A.B., 1898, Johns Hopkins University.		
M.A., 1901, Lafayette College.		
McDermott, Charles William	Mass.	221 1st Street, N. E.
Magrane, Robert	N. Y.	1114 H Street.
A.B., 1903, A.M., 1904, Harvard University.		
Mead, Thomas L., Jr	Ohio	3022 R Street.
Ph.B., 1901, Western Reserve University.		
LL.B., 1907, The George Washington University.		
Minnick, Arthur	Ill.	Patent Office.
LL.B., 1903, Chicago Kent College of Law.		
Mueller, Curt Berthold	Ohio	1406 L Street.
A.B., 1906, Cornell University.		
Packard, Edwin Augustus	Mass.	Patent Office.
B.S., 1899, Massachusetts Institute of Technology.		
LL.B., 1908, The George Washington University.		
Scull, George Francis	N. Y.	1906 H Street.
LL.B., 1907, National University.		

Name.	Legal residence.	City address.
Stanley, Lester Abbot. LL.B., 1907, National University.	D. C.	1870 Newton Street.
Symons, William Leonard. LL.M., 1896, LL.B., 1895, Columbian University.	D. C.	The Albemarle.
Ward, Samuel Mortimer, Jr. LL.B., 1906, National University.	D. C.	1300 Harvard Street.
Williams, Henry Trumbull. S.B., 1903, Harvard University. LL.B., 1907, The George Washington University.	Mass.	1808 I Street.
Wood, Dann Leonard. LL.B., 1907, National University.	D. C.	34 Todd Street, N. E.
Woodward, Franklin Tuthill. A.B., 1901, Dickinson College. LL.B., 1907, The George Washington University.	D. C.	915 S Street.

Master of Laws.

Barth, John Frederick. LL.B., 1907, The George Washington University.	Ky.	Post Office Dept.
Brigham, Eugene Foster. LL.B., 1907, University of Virginia.	Ga.	1806 K Street.
Glennan, Arthur Wyman	D. C.	Chevy Chase, Md.
Harralson, Morris K. LL.B., 1906, The George Washington University.	Ga.	1016 15th Street.
Hattersley, Ralph Marshall. LL.B., 1907, The George Washington University.	Ohio	1731 13th Street.
Leech, Wilmer Ross. LL.B., 1907, The George Washington University.	Md.	2302 1st Street.
Morris, Charles Meyer	Utah	15 6th Street, N. E.
Morris, Jackson LL.B., 1907, The George Washington University.	Ky.	1723 Willard Street.
Roberts, Ora Herbert. LL.B., 1907, The George Washington University.	Ind.	802 D Street, N. E.
Simpson, James T. LL.B., 1908, The George Washington University.	N. H.	Treasury Dept.
Smith, John Abdiel. LL.B., 1907, The George Washington University.	Pa.	1108 New York Ave.
Sommers, Walter Allwood. LL.B., 1905, St. Lawrence University. LL.B., 1906, The George Washington University.	N. Y.	Post Office Dept.
Stadden, Corry Montague. LL.B., 1907, The George Washington University.	Ohio	3002 13th Street.
Stewart, Edward Smith. LL.B., 1907, The George Washington University.	Md.	Bond Building.

Name.	Legal residence.	City address.
Tuckerman, Walter Rupert	D. C.	1515 Mass. Ave.
B.A., 1903, Harvard University.		
LL.B., 1907, The George Washington University.		
Veley, Omar Jay	D. C.	3814 5th Street.
LL.B., 1907, The George Washington University.		
Willis, William Hammond	Calif.	1806 K Street.
LL.B., 1907, University of Southern California.		

Doctor of Civil Law.

Dorsey, Roscoe John Conklin	Pa.	1519 Vermont Ave.
LL.B., 1902, LL.M., 1903, Georgetown University.		
M.Dip., 1907, The George Washington University.		
Shibley, George Henry	D. C.	The Ontario.

Special.

Allen, Robert Emmet	Iowa	131 R Street, N. E.
LL.B., 1901, University of Iowa.		
Ashbaugh, Murray Mansfield	D. C.	1745 Kilbourne Place.
Austin, William Lane	Miss.	1235 Girard Street.
Ph.B., 1897, LL.B., 1898, University of Mississippi.		
Babcock, Richard Earle	D. C.	604 F Street.
Bowyer, Joseph McCarter	Pa.	1110 F Street.
LL.B., 1907, The George Washington University.		
Brothers, Henry Jackson	Miss.	1931 K Street.
Buckler, Albert Hammond	N. Y.	16 3d Street, S. E.
Buffington, William Elmer	Pa.	1510 11th Street.
LL.B., 1907, The George Washington University.		
Calvert, John Wentworth	Md.	1750 Corcoran Street.
Cohen, Abe	Wisc.	1334 12th Street.
Colonna, Edwin Holt	Va.	1330 Riggs Street.
Fontaine, Berkeley Minor	Va.	2900 Wisconsin Ave.
Hunt, Shella Leigh	Wash.	The Plymouth.
Hurley, Patrick	Okla.	1326 New York Ave.
B.S., 1905, Indian University, Oklahoma.		
Jordan, Louis Fenimore	D. C.	The Iowa.
Leach, Harry Earl	Calif.	Hotel Cochran.
LL.B., 1907, University of California.		
Lee, William Burch	La.	Capitol.
A.B., 1906, Louisiana State University.		
Mathews, Roy Lee	Ohio	3323 17th Street.
Mendenhall, Walter Curran	Calif.	Cosmos Club.
B.S., 1894, Ohio Normal University.		

Name.	Legal residence.	City address.
Miller, Robert Legian	D. C.	1365 B Street, S. E.
Pattison, John Williams	Ohio	The Bachelor.
A.B., 1905, Kansas University.		
Reed, Philip	Md.	Rockville, Md.
Rowland, Joseph Wellington	Md.	Forest Glen, Md.
Thomas, Columbus Austin	D. C.	1231 Girard Street.
Whitten, William Henry, Jr.	Ill.	1123 Fairmont Street.
B.S., 1896, M.S., 1897, Massachusetts Institute of Technology.		

Review.

Benfer, James Pomeroy	Ohio	17th and Fort Drive, N. W.
LL.B., ——, Georgetown University.		
LL.M., 1900, M.P.L., 1907, The George Washington University.		
Calhoun, Clarence Crittenden	Ky.	507, The Rochambeau.
M.Dip., 1905, The George Washington University.		
Ellison, William Bascom	Tenn.	3013½ Sherman Ave.
LL.B., 1905, The George Washington University.		
Garnett, Philip Manly	N. H.	1347 U Street.
LL.B., 1907, LL.M., 1907, The George Washington University.		
Hazard, Elmont Bibb	D. C.	320 E Street, N. E.
LL.B., 1906, The George Washington University.		
Holliger, Frank S	D. C.	22d and N Streets.
LL.B., 1896, The George Washington University.		
Hyde, Elbert Lewis	Ohio	1814 N. Capitol Street.
B.S., 1903, Case School of Applied Science.		
M.P.L., 1907, The George Washington University.		
James, Charles Grant	Ohio	1448 Rhode Island Ave.
LL.B., 1905, The George Washington University.		
Oberlin, Paca	Va.	1238 5th Street.
LL.B., 1903, LL.M., 1904, M.Dip., 1905, The George Washington University.		
Quigley, Richard John Francis	N. Y.	1800 F Street.
LL.B., 1906, The George Washington University.		
Reinohl, William Parker	D. C.	912 F Street.
LL.B., 1901, Columbian University.		
Sanders, Franklin Oliver	Pa.	2909 13th Street.
LL.B., 1906, LL.M., 1907, The George Washington University.		
Spinks, Edgar	Miss.	General Land Office.
LL.B., 1905, The George Washington University.		

Name.	Legal residence.	City address.
Staples, Eugene Washington	Me.	Chevy Chase, Md.
LL.B., 1907, The George Washington University.		
Stetson, Frank	D. C.	Nat'l Safe Deposit, Savings and Trust Co.
LL.B., 1906, LL.M., 1907, The George Washington University.		
Tallman, Roy Warner	D. C.	103 Seaton Street.
A.B., 1898, University of Michigan. LL.B., 1901, Columbian University.		
Thomson, William Enos	Ill.	1204 O Street.
LL.B., 1907, The George Washington University.		
Weitzel, Fred William	Ky.	1219 Harvard Street.
LL.B., 1906, LL.M., 1907, The George Washington University.		
Wilmeth, Warner Lambeth	Texas	1706 9th Street.
Winbourn, Robert Emmett	Colo.	1517 P Street.
LL.B., 1907, The George Washington University.		

Summary.

CANDIDATES FOR THE LL.B. DEGREE:		
First year	68	
Second year	52	
Third year	117	
		237
CANDIDATES FOR THE M.P.L. DEGREE		27
CANDIDATES FOR THE LL.M. DEGREE		17
CANDIDATES FOR THE D.C.L. DEGREE		2
Special		25
Review		20
		328

NATIONAL COLLEGE OF PHARMACY.

Doctor of Pharmacy.

Freshmen.

Name.	Legal residence.	City address.
Boyd, Geo. W.	D. C.	121 2d Street, N. E.
Bramhall, W. A.	Ga.	520 3d Street, N. E.
Cabaniss, H. E.	Va.	724 E. Capitol Street.
Davis, Brooke J.	N. Y.	1741 N. J. Ave., N. W.
Feller, R. W.	Va.	1242 N. J. Ave., N. W.

Name.	Legal residence.	City address.
Henderson, W. K.	Va.	406 9th Street, N. E.
Hogan, J. D. A.	D. C.	7th and Md. Ave., N. E.
Judd, R. A.	D. C.	600 7th Street, S. W.
Keely, J. W.	Va.	224 12th Street, S. W.
Kenner, A. J.	Mass.	1711 17th Street, N. W.
Lampman, W. E.	Canada	1369 E Street, S. E.
Lynham, C. N.	D. C.	1213 4½ Street, S. W.
MacWilliams, N.	Md.	354 I Street, S. W.
Morgan, J. H.	D. C.	Bethesda, Md.
Moyer, Clyde D.	Pa.	The Kent, 116 N. C. Ave., S. E.
Nelson, Carl F.	Okla.	1st and C Sts., N. W.
Newhouser, Bertha G.	Pa.	127 6th Street, S. E.
Peters, D. B.	Va.	St. Elizabeth.
Plunkett, P. E.	Md.	Fla. Ave. and N. Cap St.
Richardson, Naomi E.	D. C.	1308 U Street, N. W.
Sanford, Jos. W.	D. C.	N. Capitol and N Sts.
Strobel, Julia H.	D. C.	1237 T Street, N. W.
Tschiffely, Douglas	Md.	475 Pa. Ave., N. W.
Wacksmuth, L.	N. C.	3031 11th St., N. W.
Whitaker, W. E.	D. C.	1741 Park Road, N. W.
Widmayer, W. J.	D. C.	3129 Brightwood Ave., N. W.
Wilson, E. F.	Del.	1718 Corcoran St., N. W.

Juniors.

Bailey, Ray T.	D. C.	116 C Street, N. E.
Bury, Geo. B.	D. C.	300 Monroe St., Anacostia, D. C.
Crosen, Geo. R.	Va.	1222 C Street, S. W.
Gill, T. R.	Va.	9th and P Sts., N. W.
Hughes, H. D.	D. C.	1329 29th Street, N. W.
Hanback, C.	D. C.	48 N. Y. Ave., N. W.
Harbaugh, L.	D. C.	1375 Emerson St., N. E.
Jones, T. Q.	Mo.	1202 N Street, N. W.
Jones, W. S.	Va.	817 Prince St., Alexandria, Va.
Milburn, F. W.	Va.	Alexandria, Va.
Nolan, J. I.	Ill.	1164 5th Street, N. E.
Payne, D. B.	Va.	616 G Street, S. W.
Payne, E. V.	Va.	123 C Street, N. E.
Reese, C. C.	Md.	18 Quincy Place.

Name.	Legal residence.	City address.
Richardson, Irene N.	D. C.	1308 U Street, N. W.
Robey, F. N.	Va.	Herndon, Va.
Salb, Geo. R.	D. C.	617 9th Street, N. E.
Senay, H. J.	D. C.	439 K Street, N. W.
Tewksbury, M. B.	Kansas	16 3d Street, S. E.

Seniors.

Boyer, W. R.	Md.	14th and P Sts., N. W.
Deming, C.	D. C.	937 K Street, N. W.
Floyd, H. B.	Texas	1016 Mass. Ave., N. W.
Pozen, M. A.	Russia	1410 I Street, N. W.
Richardson, Mary H.	Ohio	3d and Pa. Ave., N. W.
Richardson, E. K.	Ohio	1333 Columbia Road.
Schulze, G. H., Jr.	D. C.	1751 L Street, N. W.
Spencer, R. B.	N. C.	Falls Church, Va.
Steele, E. H.	Va.	Kensington, Md.
Thibadeau, R. B.	Ga.	316 4½ Street, S. W.
Thompson, M. C.	D. C.	430 8th Street, S. E.
Thorn, W. D.	D. C.	1412 35th Street, N. W.
Timberlake, T. O.	Va.	1101 13th St., N. W.

Special.

Helmsen, E. A.	D. C.	819 E. Capitol Street.
Weiss, Conrad	D. C.	Anacostia, D. C.

Summary.

CANDIDATES FOR THE PHAR.D. DEGREE:

Freshmen	27	
Juniors	19	
Seniors	13	
		59
Special		2
		61

GEOGRAPHICAL DISTRIBUTION OF STUDENTS.

United States.	Graduate.	Under-graduate.	Medicine.	Dentistry.	Law.	Pharmacy.	Total.
Alabama	.....	3	2	.....	3	.....	8
Arizona	1	.....	.....	.....	.....	.....	1
Arkansas	1	1	.....	.....	2	.....	4
California	.....	4	1	.....	4	.....	9
Colorado	.....	3	2	.....	2	.....	7
Connecticut	2	2	.....	3	1	.....	8
Delaware	.....	.....	.....	.....	3	1	4
District of Columbia	31	287	42	12	73	24	469
Florida	.....	3	1	.....	.....	.....	4
Georgia	.....	1	1	.....	4	2	8
Idaho	.....	.....	.....	.....	2	.....	2
Illinois	.....	11	11	.....	8	1	31
Indian Territory	.....	1	.....	.....	.....	.....	1
Indiana	1	12	2	1	7	.....	23
Iowa	4	7	3	1	8	.....	23
Kansas	.....	.....	4	2	2	1	9
Kentucky	3	.....	2	1	11	.....	17
Louisiana	.....	1	3	.....	3	.....	7
Maine	1	2	.....	.....	5	.....	8
Maryland	9	39	12	4	16	5	85
Massachusetts	3	13	3	2	15	1	37
Michigan	1	5	2	1	9	.....	18
Minnesota	.....	8	4	.....	.....	.....	12
Mississippi	3	.....	.....	.....	4	.....	7
Missouri	.....	6	2	3	3	1	15
Montana	.....	1	1	.....	1	.....	3
Nebraska	1	2	2	.....	5	.....	10
Nevada	.....	.....	.....	.....	1	.....	1
New Hampshire	1	4	1	.....	4	.....	10
New Jersey	1	5	1	1	4	.....	12
New Mexico	.....	.....	.....	.....	1	.....	1
New York	5	19	10	4	18	1	57
North Carolina	2	6	8	.....	2	2	20
North Dakota	.....	1	1	.....	.....	.....	2
Ohio	3	16	9	2	18	2	50
Oklahoma	1	.....	3	.....	1	1	6
Oregon	.....	1	1	.....	1	.....	3
Pennsylvania	6	23	17	2	24	2	74
Rhode Island	.....	3	2	2	1	.....	8
South Carolina	.....	4	4	1	.....	.....	9
South Dakota	.....	2	.....	.....	5	.....	7
Tennessee	3	1	2	.....	4	.....	10
Texas	1	2	2	.....	4	1	10
Utah	.....	3	4	2	5	.....	14
Vermont	.....	.....	1	.....	4	.....	5
Virginia	4	24	19	4	18	14	83
Washington	1	.....	.....	.....	8	.....	9
West Virginia	1	2	4	2	2	.....	11
Wisconsin	1	12	1	1	7	.....	22
Wyoming	.....	.....	.....	.....	.....	.....	....
Total United States	91	540	190	51	323	59	1254

GEOGRAPHICAL DISTRIBUTION OF STUDENTS—Continued.

Foreign countries.	Graduate.	Undergraduate.	Medicine.	Dentistry.	Law.	Pharmacy.	Total.
Australia	.....	1	.....	.....	.....	.....	1
Canada	1	.....	.....	.....	.....	1	2
Costa Rica	.....	1	1	.....	.....	.....	2
England	.....	1	.....	.....	.....	.....	1
Finland	.....	.....	1	.....	.....	.....	1
France	.....	1	.....	.....	.....	.....	1
Germany	1	2	.....	.....	.....	.....	3
Hawaii	.....	.....	.....	.....	1	.....	1
Mexico	1	1	.....	.....	.....	.....	2
Peru	.....	1	.....	.....	.....	.....	1
Philippines	.....	.....	.....	.....	1	.....	1
Porto Rico	.....	.....	1	.....	3	.....	4
Russia	.....	.....	1	.....	.....	1	2
Siam	.....	1	.....	.....	.....	.....	1
South Africa	.....	.....	2	.....	.....	.....	2
Syria	.....	.....	1	.....	.....	.....	1
Uruguay	.....	.....	1	.....	.....	.....	1
West Indies	.....	.....	.....	1	.....	.....	1
Total foreign countries	3	9	8	1	5	2	28
Total United States	91	540	190	51	323	59	1254
Grand total	94	549	198	52	328	61	1282

RECAPITULATION.

MEMBERS OF FACULTIES AND TEACHING STAFF:

Professors	87	
Assistant Professors	38	
Instructors, Demonstrators, and Assistants	76	
Lecturers	14	
Total		215

STUDENTS:

Graduate	94	
Undergraduate	549	
Professional	639	
		1282
Duplicates		24
Total		1258

	Faculty.		Students.	
Department of Arts and Sciences:				
Faculty of Graduate Studies	41		94	
Undergraduate Colleges and Divisions	53		549	
		94		643
Professional Departments:				
Department of Medicine	76		198	
Department of Dentistry	33		52	
Department of Law	20		328	
National College of Pharmacy	10		61	
		139		639
Totals		233		1282
Duplicates		18		24
Totals		215		1258

Degrees Conferred.

DEGREES CONFERRED AT COMMENCEMENT, 1907.
IN COURSE.

Bachelor of Arts.

Frances Gunby Bethune, Virginia.
Mary Simpson Birch, Virginia.
Annie Elizabeth Bodmer, District of Columbia.
John St. Clair Brookes, Jr., District of Columbia.
Robson de S. Brown, Iowa.
(With distinction.)
Elizabeth Harding Burroughs, District of Columbia.
Isabel Rhoda Capell, New York.
Harry Seymour Cragin, District of Columbia.
John Jones Fosselman, Pennsylvania.
Edward Hayes, Maryland.
Louise Winifred McCoy, District of Columbia.
Edgarda Marion MacMullen, Pennsylvania.
Syngman Rhee, Korea.
Edith Heiskell Ridout, District of Columbia.
(With distinction.)
Hans Frederick Arthur Schoenfeld, District of Columbia.
Mabel Lavinia Scott, West Virginia.
Emilie Margaret White, Vermont.
(With distinction.)

Bachelor of Science.

Joseph Franklin Brandenburg, District of Columbia.
Mildred Winans Cochran, Colorado.
Frank Adelbert Hornaday, Texas.
Clara Elizabeth Johnson, Indiana.
Julia Theckla MacMillan, District of Columbia.
Ernest Frederick Mechlin, District of Columbia.
William Charles Repetti, District of Columbia.

Bachelor of Science in Chemistry.

Charles Edwin Parker, District of Columbia.
Clarence Paret Wilson, Maryland.

Bachelor of Science in Civil Engineering.

Edgerton Chester Garvin, Ohio.
Harry Carter Hartley, Illinois.
Hugh Stewart Hill, Wyoming.
Edwin Hauptman King, District of Columbia.

Master of Science.

Harry Wilson Houghton, Maryland.
B.S. in Chemistry, 1906, The George Washington University.

Master of Arts.

Angus McDonald Crawford, Virginia.
A.B., 1907, The George Washington University.

Margaret Agnes McMahon, New York.
B.S., 1906, The George Washington University.

Alice Dyar Russell, Minnesota.
A.B., 1903, University of Minnesota.

William Webb Sniffin, District of Columbia.
A.B., 1906, The George Washington University.

Doctor of Philosophy.

Rev. George Brodthage, Germany.
Universities of Strassburg, Berlin, and Gottingen.

Frederick Warren Grover, Massachusetts.
B.S., 1899, Massachusetts Institute of Technology.
M.S., 1901, Wesleyan University.

Edward Elliott Richardson, District of Columbia.
M.D., 1895, B.S., 1904, Columbian University.
M.S., 1905, The George Washington University.

Rabbi Abram Simon, District of Columbia.
1894, Cincinnati Hebrew Union College.
B.L., 1894, University of Cincinnati.

Walter Otheman Snelling, Massachusetts.
B.S. in Chemistry, 1904, Columbian University.
B.S., 1905, Harvard University.
M.S., 1906, Yale University.

Doctor of Medicine.

Walter Raleigh Barnesby, Illinois.
Matthew John Beistel, Michigan.
Joseph Rozier Biggs, District of Columbia.
Joseph Borrows Bogan, District of Columbia.
Charles Franklin Bower, South Dakota.
William Alexander Boyd, North Carolina.

Herbert James Bryson, Pennsylvania.
A.B., 1903, Columbian University.

Clare William Burket, Pennsylvania.
William Brown Carr, Jr., District of Columbia.
Paul Irving Carter, California.
John Madison Chapman, Maryland.
Cline N. Chipman, Kentucky.
Roy Manning Clark, Michigan.
Coursen Baxter Conklin, District of Columbia.
Charles Wesley Cuthbertson, District of Columbia.
D.D.S., 1900, Columbian University.

Moses Hubbard Darnall, Texas.
Christian Henry Dewey, Illinois.
James Armitage Emery, Maryland.
Alfred Clark Garton, Indiana.
Charles Vincent Grant, Pennsylvania.
Hubert Victor Hailman, Virginia.
Nathaniel William Hankemayer, Massachusetts.
A.B., 1885, Iowa Wesleyan University.
B.D., 1890, Chicago Theological Seminary.

John White Hart, Massachusetts.
Clarence A. Hartley, Indiana.
John Kerfoot Haywood, New York.
B.S., 1896, Cornell University.

Daniel Lee High, Maryland.
Samuel Hoberman, New Jersey.
Robert Ward Holmes, New Hampshire.
Howard Henry Howlett, Louisiana.
Henry Vernon Johnston, District of Columbia.
Henry Walper Kearney, Virginia.
Jeremiah Edward Kelleher, Massachusetts.
Lane Bruce Kline, Virginia.
William Victor Levy, New Jersey.
Charles Bradford McKee, California.
William Adam Mess, Indiana.
Frederick Hinton Monk, New York.
Roy Thomas Morris, District of Columbia.
William Calvert Moser, Pennsylvania.
Alexander J. Nielson, Utah.
Orlyn Sargent Phillips, Nebraska.
Frank Leslie Rector, Oklahoma.
B.S., 1902, Oklahoma Agricultural and Mechanical College.

Samuel Sacks, District of Columbia.
Louis Schapiro, Wisconsin.

Joseph Allen Smith, North Dakota.
Thomas Francis Smith, Florida.
Eugene Theodore Stephenson, Texas.
Thomas Stetson, District of Columbia.
Henry Isaiah Stout, District of Columbia.
David Walker Tastet, District of Columbia.
Philip Roy Terry, Louisiana.
Stanley Herbert Titus, Washington.
Timothy Harrington Tomlin, Missouri.
Clifton Robert Wallace, Virginia.
John Brockenbrough, Harvie Waring, Virginia.
Harry J. Warner, Illinois.
B.S., 1901, University of Illinois.
Willis Henry Warner, Michigan.
Charles Lyman Watson, District of Columbia.
David Gifford Willets, New Jersey.
Ph.B., 1902, Wesleyan University.
Edward Comstock Wilson, New York.
Robert Jackson Yates, Virginia.

Doctor of Dental Surgery.

Clyde William Allen, South Dakota.
Charles Edwin Detmer, Montana.
Jacob Sidney Eskin, District of Columbia.
George Percival Jackson, New York.
William Francis Lawrence, New York.
George Bertram Roper MacDonald, District of Columbia.
Francisco Jose Martin, Costa Rica.
William Allison Merritt, District of Columbia.
Fred Grant Murray, District of Columbia.
Charles Sebastian Pflug, Utah.
John Albert Phillips, Nebraska.
James Edward Shea, New York.
Charles Gardner Shoemaker, District of Columbia.
John Taylor Vivian, Pennsylvania.
James Frank Wood, Michigan.

Doctor of Pharmacy.

Herman H. Colby, Germany.
William J. Cantwell, District of Columbia.
Bert V. Cuppernell, Illinois.
John R. Jacobs, New York.
John T. Keister, Virginia.

Claude J. Kem, Colorado.
Louis Laubinger, Germany.
H. H. Lantz, Virginia.
Robert Emmett Madigan, District of Columbia.
Stella C. Nelson, Oklahoma.
A. J. O'Neill, District of Columbia.
Benno. R. Preuss, Texas.
Louis Sacks, Germany.
W. Burton Spire, New York.
Robert F. Troxler, Kentucky.

Bachelor of Laws.

Robert Dow Acton, Illinois.
Albert Conant Agnew, Indian Territory.
Edward Hopkins Andrews, Michigan.
A.B., 1902, Olivet College.
William Reed Ballard, Indiana.
John Frederick Barth, Kentucky.
John Hudson Bowlby, Nebraska.
A.B., 1903, Doane College.
A.M., 1906, University of Nebraska.
Ernest Reeves Braddock, Maryland.
William E. Buffington, Pennsylvania.
John Murray Burriss, Kansas.
Samuel Clifford Carnes, Ohio.
Charles Frederick Christian, Indiana.
Guy Milton Cowgill, Iowa.
A.B., 1902, University of Nebraska.
Kenneth Cardwell Crain, Kentucky.
A.B., 1902, University of Louisville.
Luster K. Deller, Indiana.
Daniel Alfred Dunning, Utah.
Shepler Ward Fitzgerald, District of Columbia.
Nathan Gammon, Tennessee.
Henceford Noel Garner, Virginia.
Mahlon Hobart Geissler, Connecticut.
Charles Fusting Gerry, Maryland.
Walter Schell Gilchrist, District of Columbia.
A.B., 1902, Georgetown College.
Louis Edward Giles, Michigan.
B.S. in E.E., 1902, Columbian University.
Samuel Victor Gusack, District of Columbia.
Joseph Daniel Guyton, Mississippi.
B.S., 1901, Mississippi Agricultural and Mechanical College.

Robert G. Hand, Mississippi.
B.S., 1899, Mississippi Agricultural and Mechanical College.
Lee Robert Harding, Iowa.
Ralph Marshall Hattersley, Ohio.
Myron Freeman Henkel, Illinois.
William Leonard Hogg, Colorado.
A.B., 1904, Colorado College.
Dickerson Naylor Hoover, Jr., District of Columbia.
Charles Jones Huffman, Illinois.
Harry Irion, Colorado.
John Thomas Kennedy, Pennsylvania.
Robert Grover Langmade, New York.
Wilmer Ross Leech, Maryland.
Fred Lees, Kansas.
A.B., 1900, Washburn College.
William J. Lewis, New Hampshire.
Elmer Johnston Lundy, Arkansas.
B.S., 1899, Dickson College.
Lawrence Warren Manning, Kentucky.
Thomas L. Mead, Ohio.
Ph.B., 1901, Western Reserve University.
Charles Beach Melby, Wisconsin.
Robert Irwin Moore, Tennessee.
A.B., 1898, Vanderbilt University.
Hubbard Smith Needham, Kentucky.
William Forrest Prettyman, Maryland.
A.M., 1904, Randolph-Macon College.
Montague Sutton Ross, Tennessee.
A.B., 1903, University of Nashville.
John B. Schommer, Wisconsin.
John Abdiel Smith, Pennsylvania.
Corry Montague Stadden, Ohio.
Benjamin Gilbert Steenerson, Minnesota.
Edward Smith Stewart, Maryland.
Rowland Corwin Taylor, Ohio.
Enfield Hoge Thomas, Virginia.
William Enos Thomson, Illinois.
Walter R. Tuckerman, District of Columbia.
A.B., 1903, Harvard University.
Frank E. Tyler, Mississippi.
Richard Blackburn Washington, Virginia.
Edward Mitchell Weeks, Pennsylvania.
Taylor Bladen Weir, Virginia.
Henry Trumbull Williams, Massachusetts.
B.S., 1903, Harvard University.

James McGowan Williamson, District of Columbia.
Robert Emmet Winbourn, Colorado.
Franklin Tuthill Woodward, District of Columbia.
A.B., 1901, Dickinson College.
William Hand Woolverton, Mississippi.
A.B., 1903, Dartmouth College.

Master of Patent Law.

John Henry Anderson, Ohio.
LL.B., 1906, National University.
James Pomeroy Benfer, Ohio.
LL.B., 1898, Georgetown University.
LL.M., 1900, Columbian University.
William Wilson Bon Durant, Illinois.
LL.B., 1906, Washington College of Law.
Emory Addison Bryant, District of Columbia.
LL.B., 1906, National University.
D.D.S., 1886, Baltimore College of Dental Surgery.
Ethel Marguerite Colford, Nova Scotia.
LL.B., 1903, LL.M., 1904, Washington College of Law.
Florence Agnes Colford, Nova Scotia.
LL.B., 1903, LL.M., 1904, Washington College of Law.
James Murray Drysdale, Colorado.
LL.B., 1905, National University.
B.S. in E.E., 1906, The George Washington University.
Theodore Cornell Fenton, District of Columbia.
LL.B., 1892, LL.M., 1893, M.E., 1900, Columbian University.
John Andrew Griesbauer, Jr., District of Columbia.
LL.B., 1905, The George Washington University.
Elbert Lewis Hyde, Ohio.
B.S., 1903, Case School of Applied Science.
Eugene George Mason, District of Columbia.
LL.B., 1906, National Law School.
Samuel Bernard Pack, Pennsylvania.
LL.B., 1906, National Law School.
Clarence Le Roy Parker, District of Columbia.
B.S., 1895, M.S., 1896, Columbian University.
LL.B., National University.
Bert Russell, Maryland.
A.M., 1903, University of Minnesota.
LL.B., 1906, Georgetown University.
Adrian Sizer, Pennsylvania.
LL.B., 1901, LL.M., 1902, Georgetown University.
Raymond Henry Van Nest, District of Columbia.
LL.B., 1906, Georgetown University.

William Julius Wesseler, District of Columbia.
B.A., 1900, Washington University.
LL.B., 1902, St. Louis Law School.
LL.M., 1905, The George Washington University.

Master of Laws.

Charles Shields Brothers, Mississippi.
LL.B., 1902, University of Mississippi.

Allen Gilbert Flowers, South Carolina.
LL.B., 1906, The George Washington University.

Philip Manly Garnett, New Hampshire.
LL.B., 1906, The George Washington University.

Phillips Campbell McDuffie, New York.
LL.B., 1905, Wake Forest College, N. C.

Francis John Phillips, New York.
LL.B., 1906, The George Washington University.

Franklin Oliver Sanders, Pennsylvania.
LL.B., 1906, The George Washington University.

Frank Stetson, District of Columbia.
LL.B., 1906, The George Washington University.

Edwin Allen Swingle, District of Columbia.
LL.B., 1906, The George Washington University.

Fred William Weitzel, Kentucky.
LL.B., 1906, The George Washington University.

DEGREES CONFERRED AT FALL CONVOCATION, 1907.

IN COURSE.

Bachelor of Arts.

Albert Perkins Tibbets, New Hampshire.

Bachelor of Science.

William Alexander Boyd, North Carolina.
M.D., 1907, The George Washington University.

Doctor of Medicine.

Arthur Compton, District of Columbia.
Clarence Mazarine Dollman, Virginia.
John Lee Grant, Virginia.
Eben Wesley White, New York.

Bachelor of Laws.

Henry Palmer Alden, District of Columbia.
Joseph McCarter Bowyer, Pennsylvania.
B.S., 1904, Princeton University.

Frank A. Law, Jr., District of Columbia.
Henry Petingale Merrill, District of Columbia.
Jackson Morris, Kentucky.
William Thomas Peake, District of Columbia.
Ora Herbert Roberts, Indiana.
Eugene Washington Staples, Maine.
Omar Jay Veley, New York.
Frederick R. Whippler, District of Columbia.

Master of Patent Law.

Fred Merriam Hopkins, Michigan.
Arthur Minnick, Illinois.

Master of Laws.

Walter Allwood Sommers, New York.
LL.B., 1905, St. Lawrence University.
LL.B., 1906, The George Washington University.

DEGREES CONFERRED AT WINTER CONVOCATION, 1908.

HONORARY.

Doctor of Music.

Cornelius Rübner, of Columbia University, New York.
William H. Santelmann, District of Columbia.

IN COURSE.

Bachelor of Arts.

Claude Carville Jones, Maryland.

Bachelor of Science.

Charles Henry Tyler Townsend, District of Columbia.

Bachelor of Science in Architecture.

Charles Russell Lombard, Maine.

Bachelor of Science in Civil Engineering.

David Albert Molitor, Wisconsin.

Master of Diplomacy.

August Friedrich Wilhelm Edler, Germany.
A.M., 1907, The George Washington University.

Master of Science.

George Nelson Coffee, North Carolina.
Ph.B., 1900, University of North Carolina.

Doctor of Philosophy.

Clara Southmayd Ludlow, Mississippi.
B.S., 1900, M.S., 1901, Agricultural and Mechanical College, Mississippi.

Doctor of Medicine.

Thomas Alexander Lee, Jr., District of Columbia.
Franz Carl Waldecker, Kansas.

Bachelor of Laws.

Arthur George Baker, Massachusetts.
B.A., 1903, Amherst College.
Louis Nelson Duffey, Virginia.
Paul Rankin Hallam, Kentucky.
Charles Meyer Morris, Utah.
Edwin Augustus Packard, Massachusetts.
B.S., 1899, Massachusetts Institute of Technology.

Master of Laws.

James T. Simpson, LL.B., New Hampshire.

Doctor of Civil Law.

Roscoe John Conklin Dorsey, Pennsylvania.
LL.M., 1903, Georgetown University.
M.Dip., 1907, The George Washington University.

Doctors of Philosophy.

During the years 1894 to 1907, inclusive, the University has conferred the degree of Doctor of Philosophy, after examination and the presentation and public defense of a thesis, upon the following persons:

1894.

Edward Farquhar, (Greek)
Thesis: Elements of Unity in the Homeric Poems. (Conservative Review, vol. iii, June-September, 1900.)

Walter Scott Harshman, (Theoretical Astronomy)
M.S., 1892, Columbian University.
Thesis: Investigation of the Motion of the Pericentre of Deimos. (Astronomical Journal, Boston, vol. xiv, pp. 145-148, 1894.)

Professor Frank Hall Knowlton, (Botany)
B.S., 1884, M.S., 1887, Middlebury.
Thesis: The Flora of the Laramie Group and Allied Formations. (Not published.)

Claude Augustus Oscar Rosell, (Chemistry)
M.A., 1881, University of Pennsylvania; LL.B., 1886, Georgetown University.
Thesis: Investigation of the Properties of Ferric Acid. (J. Am. Chem. Soc., vol. xvii, pp. 760-769, 1895.)

1895.

George Wesley Hamner, (History)
B.A., 1882, M.A., Hiawassee College; LL.B., 1885, University of Alabama; LL.M., 1886, Georgetown University.
Thesis: Researches upon the Government of the Creek Indians. (Not published.)

1896.

Edward Clarke Hudson, (Greek)
B.A., 1884, M.A., 1894, Hiawassee College; M.A., 1894, Columbian University.
Thesis: Investigation into the Use of the Genitive Case in Greek. (Not published.)

Rev. James Stephen Lemon, (Psycho-physics)
B.A., 1864; M.A., 1867, Wesleyan University, Middletown, Conn.
Thesis: The Skin Considered as an Organ of Sensation. (Published separately, 1898, 70 pp.)

1897.

Professor Charles Arthur Hollick, (Palæobotany)
Ph.D., 1879, Columbia College.
Thesis: Palæobotany of the Yellow Gravel at Bridgeton, N. J. (Not published.)

John Scott Johnson, (Philosophy)
B.S., 1893; M.A., 1894, Columbian University.
Thesis: The Influence of French Thought on the Formation of the Constitution of the United States. (Not published.)

Timothy William Stanton, (Palæontology)
B.S., 1883; M.S., 1895, University of Colorado.
Thesis: A Comparative Study of the Lower Cretaceous Formation and Faunas of the United States. (Jour. of Geology, pp. 1-49, September-October, 1897.)

1898.

Cabell Whitehead, (Chemistry)
B.M., 1885, Lehigh University; M.S., 1895, Columbian University.
Thesis: A Study of the Tellurides; Their Formation and Chemical Properties. (G. W. U. Bull., 5 [4], 65-68, 1906.)

1900.

Eugene A. Byrnes, (Physical Chemistry)
B.A., 1884, Michigan University; LL.B., 1887; LL.M., 1888, Columbian University.
Thesis: Experiments on the Direct Conversion of the Energy of Carbon into Electrical Energy. (1, "Voltaic Cells with Fused Electrolytes"; 2, "Notes on Metallic Diaphragms." Trans. Amer. Electrochemical Society. Vol. 2, pp. 113-121. Vol. 4, p. 135.)

Rev. Benjamin Alfred Dumm, (Philosophy)
B.A., 1886; M.A., 1889, Western Maryland College.
Thesis: The Concept of Self in the Analysis of Experience. (Not published.)

Professor Charles Russell Ely, (Chemistry)
A.B., 1891; A.M., 1897, Yale College.
Thesis: Investigation of the Phenomenon of Deliquescence and the Capacity of Salts to Attract Water Vapor. (G. W. U. Bull., 5 [4], 69-74, 1906.)

Ernestine Fireman, (Chemistry)
M.S., 1898, Columbian University.
Thesis: The Action of Phosphonium Iodide on Tetra and Penta Chlorides. (Am. Chem. Jour., 30, 116-133, 1903.)

Charles Moore, (American History)
A.B., 1878, Harvard; M.A., 1898, Columbian University.
Thesis: The Northwest under Three Flags. (Published separately by Harper & Bros., New York, 1900, 402 pp.)

1901.

William Hamilton, (American History)
B.A., 1891, Moravian College, Pennsylvania; M.A., 1894, Columbian University.
Thesis: The Expansion of Russia to the Eastward. (Not published.)

Chohei Shirasu, (Economics)
Graduate, 1893, Doshisha University, Japan; A.M., 1899, Yale University.
Thesis: The Development of Commerce in Japan and its Effect on Civilization. (Summary of Commerce and Finance for December, 1901, Bureau of Statistics, U. S. Treasury Department, pages 2227-2315.)

1902.

Rev. Frank Leighton Day, (Anthropology)

B.A., 1891; M.A., 1896, Roanoke College; B.D., 1895, Vanderbilt University.

Thesis: Did the Semites Pass through a Totem Stage? (Not published.)

Nevil Monroe Hopkins, (Chemistry)

B.S., 1899; M.S., 1900, Columbian University.

Thesis: Some Experiments on Electrolytic Conductivity with Reference to the Ionic Theory. G. W. U. Bull., 3 [3], 91-94, 1904. (Published separately as "Experimental Electrochemistry," by D. Van Nostrand Company, New York, 1905, 284 pp., 131 ill.)

1903.

Edwin Allston Hill, (Chemistry)

A.B., 1875; A.M., 1902, Yale University; M.S., 1901, Columbian University.

Thesis: The Constitution of Certain Halogen Oxyacids as inferred from Thermochemical Data. (G. W. U. Bull., 3 [4], 94-103, 1904.)

William Mather Lamson, (Architecture)

B.S., 1897; C.E., 1899, Columbian University.

Thesis: Iron and Steel Domes. (Not published.)

Thomas Malcolm Price, (Biochemistry)

B.S., Maryland Agricultural College; M.S., 1900, Columbian University.

Thesis: The Influence of Varying Strength Solutions of Formaldehyde on some of the Enzymes of Animal Origin. (G. W. U. Bull., 3 [4], 104-108, 1904.)

Harriet Richardson, (Zoölogy)

A.B., 1896; A.M., 1901, Vassar College.

Thesis: Contributions to the Natural History of the Isopoda. (Proc. U. S. Nat. Museum, 27, 1-89, 1904, and Bull. U. S. Fish Com., pp. 47-54, Sept. 17, 1903.)

1904.

William Macon Coleman, (History)

A.B., 1858; A.M., 1892, University of North Carolina.

Thesis: A Refutation of Mommsen's Theory on Cæsar's Agrarian Policy. (Not published.)

Frank Van Vleck, (Mechanical Engineering)

M.E., 1884, Stevens' Institute of Technology.

Thesis: Improvements in Ship Construction. (Not published.)

Andrew Wilson, (American History)

B.S., 1885; B.O., 1886; B.A., 1886; M.A., 1890, Kansas Normal College; LL.B., 1890; LL.M., 1891, Georgetown University; M.L., 1892, D.C.L., 1893, Yale University.

Thesis: Influence of John Marshall on the Political History of the United States. (Not published.)

1905

Ray Smith Bassler, (Paleontology)

B.A., 1902, University of Cincinnati; M.S., 1903, The Columbian University.

Thesis: A Study of the James Types of Ordovician and Silurian Bryozoa. (Proc. U. S. Nat. Museum, xxx, 1906, 1-66, pls. I-IV.)

Hiram Colver McNeil, (Chemistry)

B.S., 1896; M.S., 1899, Denison University.

Thesis: On the Constitution of Certain Natural Silicates. (G. W. U. Bull., 4 [3], 76-79, 1905. Journal American Chemical Society [28], 590-602, 1906.)

Henry Albert Pressey, (Hydraulic Engineering)

B.S., 1893, The Columbian University; B.S., 1896, Massachusetts Institute of Technology.

Thesis: Flow of Water in Channels. (Not published.)

Warren Waverley Phelan, (Comparative Jurisprudence)

B.A., 1894; M.A., 1896, Columbia University.

Thesis: An Historical Sketch of the Criminal Law of Louisiana from the Founding of the Colony to the Establishment of the State. (Not published.)

1906.

Cornelius Lott Shear, (Botany)

B.S., 1896; M.S., 1900, University of Nebraska.

Thesis: Cranberry Diseases. (G. W. U. Bull., 5 [4], 75-78, 1906. Bulletin 110, Bureau of Plant Industry, U. S. Department of Agriculture, 1907.)

Martin Norris Straughn, (Agricultural Chemistry)

B.S., 1899, Maryland Agricultural College; M.S., 1902, Columbian University.

Thesis: The Chemistry of Different Varieties and Individual Ears of Sweet Corn as affected by Enzymes, Climatic Conditions, and Breeding. (Bulletin 120, Maryland Agricultural Experiment Station, 1907.)

1907.

Rev. George Brodthage, (Germanics)

Universities of Strasburg, Berlin and Göttingen.

Thesis: Germanentum, Gottmenschentum. (G. W. U. Bull., 6 [3], 82-86, 1907.)

Frederick Warren Grover, (Physics)

B.S., 1899, Massachusetts Institute of Technology; M.S., 1901, Wesleyan University, Connecticut.

Thesis: Simultaneous Measurement of the Capacity and Power Factor of Condensers. (G. W. U. Bull., 6 [3], 92-95, 1907. Bulletin of the Bureau of Standards, May 23, 1907, Reprint No. 64, pp. 371-431.)

Edward Elliott Richardson, (Philosophy)

B.S., 1904; M.D., 1895; M.S., 1905, George Washington University.

Thesis: Mechanism and Teleology. (G. W. U. Bull., 6 [3], 87-91, 1907.)

Rabbi Abram Simon, (Philosophy)

1894. Cincinnati Hebrew Union College; B.L., 1894, University of Cincinnati.

Thesis: The Constructive Character and Function of Religion in Human Progress as Illustrated by the Religion of Israel. (Not published.)

Walter Otheman Snelling, (Chemistry)

B.S. in Chemistry, 1904, Columbian University; B.S. in General Science, 1905, Harvard University; M.S., 1906, Yale University.

Thesis: Contributions to the Knowledge of Tellurium. (Not published.)

Warner W. Stockberger, (Botany)

B.S., 1902, Denison University

Thesis: The Effect of Certain Toxic Solutions on Nuclear and Cell Division in Root Tips of Vicia Faba. (Not published?)

1908.

Clara Southmayd Ludlow, (Preventive Medicine)

B.S., 1900; M.S., 1901, A. and M. College, Mississippi.

Thesis: The Mosquitoes of the Philippine Islands. The distribution of certain species and their occurrence in relation to the incidence of certain diseases. (Not published.)

Associations, Boards and Committees.

ALUMNI ASSOCIATIONS.

THE GENERAL ASSOCIATION.

Officers, 1907.

President.

EDWIN C. BRANDENBURG.

Vice-Presidents.

N. LANDON BURCHELL,
DR. THEODORE N. GILL,
DR. VIRGIL B. JACKSON,
FULTON LEWIS,
WILLIAM A. MEARNS,
JOHN B. SLEMAN, JR.

Secretary.

HOWARD L. HODGKINS,

Treasurer.

JOHN B. LARNER.

Executive Committee.

EDWIN C. BRANDENBURG, Chairman.
HOWARD L. HODGKINS, Secretary.

DR. GEORGE N. ACKER,
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N. LANDON BURCHELL,
DR. JOHN W. CHAPPELL,
MYER COHEN,
DR. THEODORE N. GILL,
JOHN W. HOLCOMBE,
DR. A. BARNES HOOE,
DR. VIRGIL B. JACKSON,
JOHN B. LARNER,
FULTON LEWIS,
WILLIAM A. MEARNS,
EDWARD G. PORTNER,
WILLIAM H. SINGLETON,
JOHN B. SLEMAN, JR.,
DR. HENRY C. THOMPSON,
HENRY F. WOODARD.

PUGET SOUND ALUMNI ASSOCIATION.

President.

DR. KENNETH TURNER,

Vice-President.

H. T. GARRETSON,

Secretary and Treasurer.

CHARLES A. SPIRK,

New York Building, Seattle, Wash.

COLORADO ALUMNI ASSOCIATION.

President.
LUCIUS M. CUTHBERT.

Secretary and Treasurer.
CLARENCE A. BRANDENBURG,
445-446 Equitable Bldg., Denver, Colo.

SALT LAKE CITY ALUMNI ASSOCIATION.

President.
DR. WILLIAM F. BEER,

Secretary.
CULBERT L. OLSEN,

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